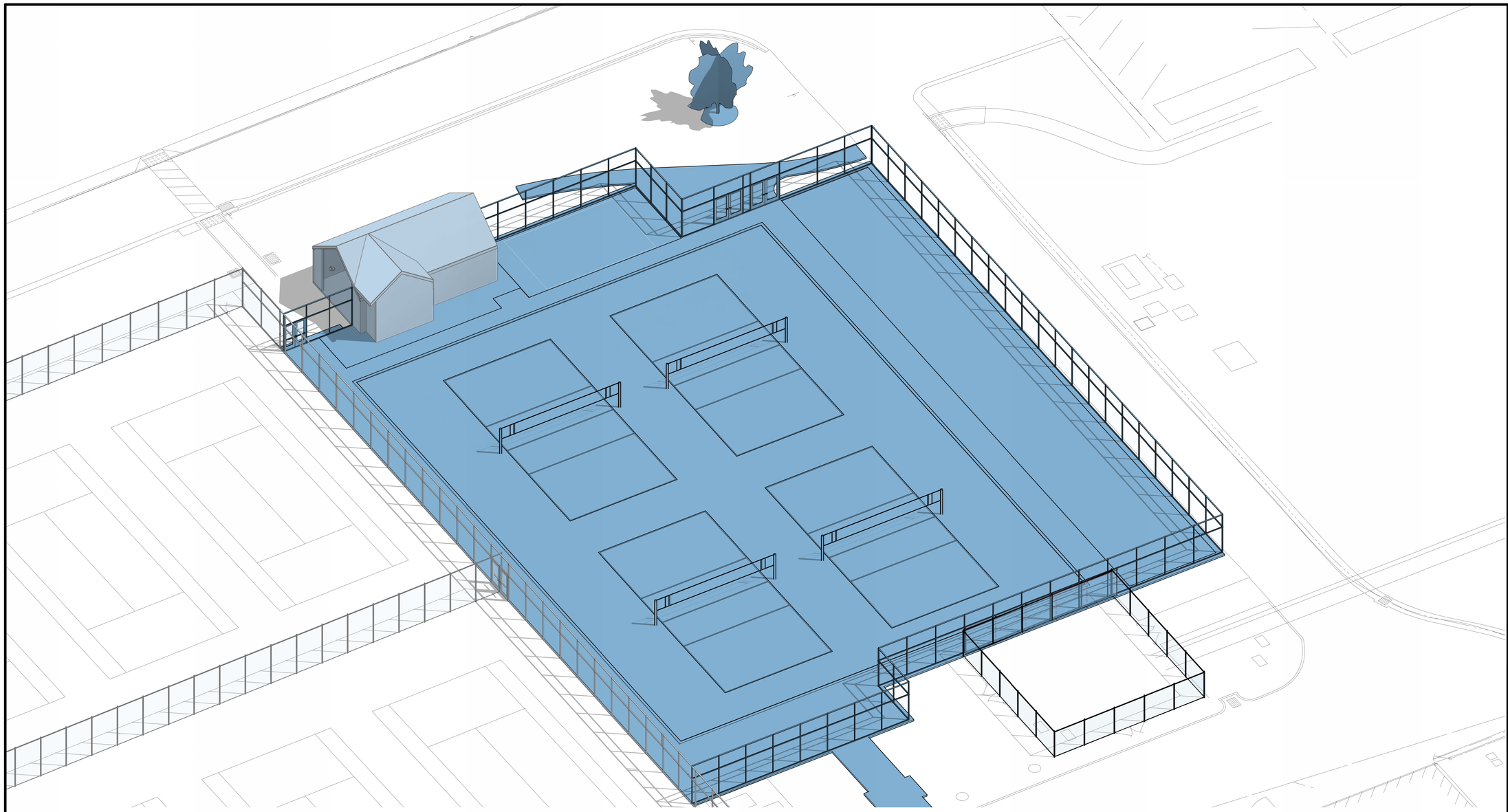

SOLANO COMMUNITY COLLEGE
SAND VOLLEYBALL COMPLEX

FEBRUARY 14, 2025

DSA BACKCHECK

FILE NO.48-C1
02-122861

AGENCY APPROVAL DSA# 02-122861

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

196

880 HARRISON ST, SUITE 303B
SAN FRANCISCO, CA 94107
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ARCHITECT STAMP	CONSULTANT STAMP

LICENSED ARCHITECT
FRANCIS CHAN
C-7519
REN. 11-30-25
STATE OF CALIFORNIA

REVISIONS
1

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
COVER SHEET

DRAWN BY: xx JOB NUMBER: 24056

SHEET NO.
G-000

DATE: FEBRUARY 14, 2025

DSA BACKCHECK

DATE PLOTTED: 2/19/2025 12:18:49 PM FILE LOCATION: C:\Users\rhan\Documents\24056 - Solano CC Sand Volleyball Complex_rhanKLMYC.rvt

SOLANO COMMUNITY COLLEGE

SAND VOLLEYBALL COMPLEX

FILE NO.48-C1

02-122861

SYMBOLS

DRAFTING ITEMS

- DATUM - CONTROL POINT
- DIMENSION LINE AND TICK
- MATCHLINE - SEE: 1 / A101
- BREAK LINE
- 01.23.A KEYNOTE
- Name / Elevation PROJECT LEVEL MARKER
- 0 COLUMN GRID MARKER
- REVISION CLOUD
- CMNT # REVISION TAG
- PROJECT NORTH
- PROJECT NORTH ARROW

VIEW REFERENCES

- 1 / A101 SIM — VIEW REFERENCE / SHEET REFERENCE
- 1 / A101 SIM — DETAIL VIEW
- 1 / A101 TYP. — SECTION VIEW
- 1 / A101 SIM — ENLARGED VIEW
- 1A / A-101 / 1A / 1A — INTERIOR ELEVATION; VIEW REFERENCE / SHEET REFERENCE
- 99 / A1-100 — EXTERIOR ELEVATION

ABBREVIATIONS

@	AT	ID	INSIDE DIAMETER
℄	CENTER LINE	INSUL	INSULATION OR INSULATED
#	PENNY	INV	INVERT
#	POUND	LAV	LAVATORY
⊥	PERPENDICULAR	MATL	MATERIAL
∠	ANGLE	MAX	MAXIMUM
AB	ANCHOR BOLT	MB	MACHINE BOLT
AC	ASPHALTIC CONCRETE	MECH	MECHANICAL
ACT	ACOUSTICAL CEILING TILE	MFR	MANUFACTURE OR MANUFACTURER
AFF	ABOVE FINISH FLOOR	MH	MAN HOLE
ALT	ALTERNATE	MIN	MINIMUM
ALUM	ALUMINUM	MISC	MISCELLANEOUS
ANOD	ANODIZED	MO	MASONRY OPENING
APPROX	APPROXIMATE	N	NORTH
ARCH	ARCHITECT OR ARCHITECTURAL	(N)	NEW
BD	BOARD	NIC	NOT IN CONTRACT
BLDG	BUILDING	NO OR #	NUMBER
BLK(G)	BLOCK(ING)	NTS	NOT TO SCALE
BOB	BOTTOM OF BEAM	OC	ON CENTER
BM	BEAM	OD	OUTSIDE DIAMETER
CB	CATCH BASIN	OPNG	OPENING
CI	CAST IRON	PL	PLATE OR PROPERTY LINE
CJ	CONSTRUCTION JOINT	PLAM	PLASTIC LAMINATE
CLG	CEILING	PLAS	PLASTER (NUMBER - SEE SPECS)
CLR	CLEAR	PLYWD	PLYWOOD
CMU	CONCRETE MASONRY UNIT	PNT	PAINT (NUMBER - SEE SPECS)
CO	CLEAN OUT	PTDF	PRESSURE TREATED DOUGLAS FUR
COL	COLUMN	QT	QUARRY TILE
CONC	CONCRETE	RD	ROOF DRAIN
CONT	CONTINUOUS	REF	REFRIGERATOR
CSK	COUNTERSINK	REINF	REINFORCE OR REINFORCING
CW	COLD WATER	RH	ROUND HEAD
DBL	DOUBLE	RM	ROOM
DEPT	DEPARTMENT	RO	ROUGH OPENING
DET	DETAIL	RWD	REDWOOD
DF	DRINKING FOUNTAIN	S	SOUTH
DIA	DIAMETER	SCH	SCHEDULE
DIAG	DIAGONAL	SD	STORM DRAIN
DN	DOWN	SHR	SHOWER
DS	DOWNSPOUT	SHT	SHEET
DWG	DRAWING	SHTHG	SHEATHING
E	EAST	SIM	SIMILAR
(E)	EXISTING	SMACNA	THE ARCH SHEET METAL MANUAL
EB	EXPANSION BOLT	SPEC	SPECIFICATION
EJ	EXPANSION JOINT	SQ	SQUARE
ELEV	ELEVATION	SSTL	STAINLESS STEEL
ELEC	ELECTRIC(AL)	STD	STANDARD
EP	EDGE OF PAVING	STL	STEEL
EQ	EQUAL	SUSP	SUSPENDED
EQUIP	EQUIPMENT	SYM	SYMMETRICAL
FD	FLOOR DRAIN	TOB	TOP OF BEAM
FE(C)	FIRE EXTINGUISHER (& CABINET)	TOC	TOP OF CURB OR TOP OF CONCRETE
FF	FINISHED FLOOR	TCB	TOP OF CATCH BASIN
FG	FINISHED GRADE	TEL	TELEPHONE
FH	FLAT HEAD OR FIRE HYDRANT	TEMP	TEMPERATURE OR TEMPERED
FIN	FINISH	T&G	TONGUE & GROOVE
FL	FLOW LINE	TP	TOP OF PAVING
FLR	FLASHING	TS	STRUCTURAL TUBING
FOC	FACE OF CONCRETE	TV	TELEVISION
FOF	FACE OF FINISH	TOW	TOP OF WALL
FOM	FACE OF MASONRY	TYP	TYPICAL (ITEMS TYPICAL UNLESS SHOWN OR NOTED OTHERWISE)
FOS	FACE OF STUD	UON	UNLESS OTHERWISE NOTED
FRP	FIBERGLASS REINFORCED PANEL	VCT	VINYL COMPOSITION TILE
FT	FOOT OR FEET	VERT	VERTICAL
FTG	FOOTING	VGDF	VERTICAL GRAIN DOUGLAS FIR
GA	GAUGE	VTR	VENT THRU ROOF
GALV	GALVANIZED	W	WEST
GB	GRAB BAR, GRADE BREAK	WC	WATER CLOSET
GL	GLASS	W.C.	WHEELCHAIR ACCESSIBLE
GLB	GLUE LAMINATED BEAM	WD	WOOD
GYP	GYPSUM	WF	WIDE FLANGE
GWB	GYPSUM WALL BOARD	WH	WATER HEATER
HB	HOSE BIBB	WP	WATERPROOF
HDR	HEADER	WS	WOOD SCREW
HGT	HEIGHT	WSCT	WAINSCOT
HORIZ	HORIZONTAL	WWF	WELDED WIRE FABRIC
HTR	HEATER	W/	WITH
HVAC	HEATING/VENTILATING/AIR CONDITIONING	W/O	WITHOUT

GENERAL PROJECT NOTES - COMUNITY COLLEGE

1. ALL WORK SHALL CONFORM TO THE BUILDING CODES LISTED IN THESE DOCUMENTS AND ALL CURRENT REVISIONS AND REGULATIONS AS INSTITUTED BY THE AUTHORITY HAVING JURISIDICTION (AHJ).
2. THE PROJECT MANUAL AND SPECIFICATIONS IN CONJUNCTION WITH THESE DRAWINGS AND REFERENCES SHALL FORM A PART OF THE CONTRACT AND SHALL BE REFERRED TO AS THE "DOCUMENTS." THE DOCUMENTS DEFINE THE WORK TO BE PERFORMED AS AGREED TO IN THE CONTRACT.
3. CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS
4. A DSA CERTIFIED INSPECTOR WITH CLASS 2 SHALL BE EMPLOYED BY THE DISTRICT AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS. THE PROJECT INSPECTOR SHALL BE CERTIFIED BY DSA TO INSPECT.
5. APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
6. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWING SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS.
8. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
9. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. SEE NOTE 3 FOR DSA INSPECTION REQUIREMENTS.
10. ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE COURSE OF THIS WORK SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
11. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
12. NOT USED.
13. NOT USED.
14. NOT USED.
15. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE NEW CONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
16. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
17. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE THOROUGHLY FAMILIARIZE WITH THE DOCUMENTS. ALL DISCREPANCIES, CONFLICTS OR OMISSIONS WITHIN THE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION. FAILURE TO INFORM THE ARCHITECT PRIOR TO THE START OF WORK SHALL CONSTITUTE ACCEPTANCE OF THE DISCREPANCIES, CONFLICTS OR OMISSIONS BY THE CONTRACTOR AND THE WORK SHALL BE COMPLETED AS DEFINED IN THE DOCUMENTS WITHOUT ADDITIONAL COST OR TIME DUE TO THE DISCREPANCIES, CONFLICTS OR OMISSIONS.
18. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE ACQUAINTED WITH THE WORK OF OTHER TRADES WHOSE ACTIVITIES WILL ADUON OR BE AFFECTED BY THEIR WORK. THEY SHALL CONSULT WITH THESE OTHER CONTRACTORS OR WORKERS AND STUDY THEIR SHOP DRAWINGS IN ORDER TO COORDINATE THEIR EFFORT TOWARD AVOIDING MISTAKES, OMISSIONS, DISPUTES OR DELAYS.
19. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT AND CONSULTANTS SHALL NOT INCLUDE INSPECTIONS OF THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURE'S REQUIRED, WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
20. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL REVIEW STRUCTURAL, ELECTRICAL DRAWINGS FOR CURBS, PADS FOR SIZE, LOCATION AND APPLICABLE DETAILS. VERIFY FINAL ITEMS WITH SELECTED SUPPLIERS. ALL SUCH WORK IS A PART OF THE WORK.
21. ALL DIMENSIONS SHOWN ARE TAKEN TO GRID LINES, THE FACE OF STUD, FACE OF MASONRY OR FACE OF CONCRETE UNLESS NOTED OTHERWISE. VERIFY ALL DIMENSIONS AT THE SITE.
22. DO NOT SCALE DRAWINGS, DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE.
23. REFERENCE TO ANY PARTICULAR DETAIL OR DRAWINGS IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWING. NOTES AND DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS NOTED OTHERWISE.
24. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL MAKE FIELD MEASUREMENTS NECESSARY FOR THIS WORK, AND BE RESPONSIBLE FOR THEIR ACCURACY. VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS OF THE WORK BEFORE AND DURING CONSTRUCTION.
25. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL PROTECTIVE WALLS, FENCES AND BARRIERS TO SAFEGUARD THE PUBLIC FROM THE CONSTRUCTION WORK FOR THE ENTIRE TIME THE CONSTRUCTION IS IN PROGRESS.
26. THE LOCATION OF ALL STAGING, PARKING, LOADING AND STORAGE OF MATERIALS, EQUIPMENT AND EMPLOYEES ON THE SITE SHALL BE VERIFIED WITH AND APPROVED IN WRITING BY THE OWNER.
27. THE CONTRACTOR SHALL DETERMINE LOCATION OF UTILITY SERVICES IN THE AREA OF WORK PRIOR TO BEGINNING EXCAVATION.
28. NOT USED.
29. NOT USED.
30. NOT USED.
31. NOT USED.
32. FACILITIES: THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SANITARY TOILET FACILITIES ON SITE FOR THE ENTIRE TIME THAT CONSTRUCTION IS IN PROGRESS.
33. THE CONTRACTOR SHALL MAINTAIN THE SITE, BUILDING(S) AND ADJACENT STREETS CLEAN AND FREE OF ACCUMULATION OF CONSTRUCTION DEBRIS.
34. NOT USED.
35. EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.

PROJECT DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF A NEW, FOUR - COURT BEACH VOLLEYBALL FACILITY, A (1) PRE-CHECK DIGITAL SCOREBOARD, (1) PRE-CHECK SHADE STRUCTURE, AND ASSOCIATED SITE WORK AND FENCING.

DEFERRED SUBMITTALS

1. N/A

EXEMPT ITEMS FROM SPECIAL INSPECTION

PLEASE REFER TO DSA 103 FORM. ITEMS EXEMPTED FROM SPECIAL INSPECTION ARE AS FOLLOWS:

CONCRETE/MASONRY:
1. POST-INSTALLED ANCHORS FOR THE FOLLOWING: A) EXEMPT NON-STRUCTURAL COMPONENTS (E.G., MECHANICAL, ELECTRICAL, PLUMBING EQUIPMENT - SEE ITEM 7 FOR "WELDING" IN THE APPENDIX BELOW) GIVEN IN CBC SECTION 1617A.1.18 (WHICH REPLACES ASCE 7-16, SECTION 13.1.4) OR B) INTERIOR NONSTRUCTURAL ALL PARTITIONS MEETING CRITERIA LISTED IN EXEMPT ITEM 3 FOR "WELDING" IN THE APPENDIX BELOW

2. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED FOR ITEMS GIVEN IN CBC SECTION 1705A.3.3.2 SUBJECT TO THE REQUIREMENTS AND LIMITATIONS IN THAT SECTION.

3. EPOXY SHEAR DOWELS IN SITE FLATWORK AND/OR OTHER NON-STRUCTURAL CONCRETE.

4. REINFORCING BAR TESTING FOR ITEMS LISTED IN AND COMPLYING WITH CBC SECTION 1910A.2.

5. FREESTANDING STIE WALLS AND RETAINING WALLS PER DSA IR 21-1.

APPLICABLE CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1
2022 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3
(2021 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6
2022 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 9
(2021 INTERNATIONAL FIRE CODE AND 2022CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 10
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11
2022 CALIFORNIA REFERENCED STANDARDS CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 12
(PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS)
2022 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(PER 2022 CBC PART 2 CH 35)
CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE
OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

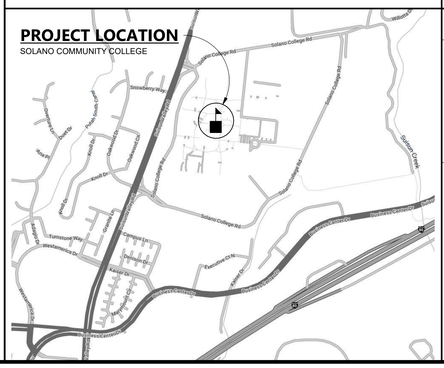
NFPA 13-22 -STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 14-19 -STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSESYSTEMS
NFPA 10-21 -STANDARD FOR PORTABLE FIRE EXTINGUISHERS
NFPA 12-15 -STANDARD ON CARBON DIOXIDE EXTINGUISHING SYSTEMS
NFPA 12A-18 -STANDARD ON HALON 1301 FIRE EXTINGUISHING SYSTEMS
NFPA 13-22 -STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)
NFPA 17-21 -STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS
NFPA 17A-21 -STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS
NFPA 20-19 -STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
NFPA 24-19 -STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)
NFPA 72-22 -NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)
NFPA 80-19 -STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES
UL 300-2005(R2010) -STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT
UL 464-03 -AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES
UL 521-99 -STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
UL 1971-2002(R2010) -STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED
ICC 300-17 -STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS
*ALL PARTS OF THE 2022 TITLE 24 HAVE AN EFFECTIVE DATE OF JANUARY 1, 2023 EXCEPT:
2022 CALIFORNIA ADMINISTRATIVE CODE -EFFECTIVE MARCH 5, 2022

SHEET INDEX

SHEET #	SHEET NAME	REV #	DATE
1. OVERALL GENERAL INFORMATION			
G-000	COVER SHEET		
G-001	TITLE SHEET		
G-101	CODE SITE PLAN		
G-102	LOCAL FIRE AUTHORITY PLAN		
G-110	ENLARGED CODE SITE PLAN		
GENERAL SHEETS TOTAL: 5			
2. CIVIL ENGINEERING			
C101	TOPOGRAPHIC SURVEY		
C201	DEMOLITION PLAN		
C301	SITE PLAN		
C401	HORIZONTAL CONTROL PLAN		
C501	GRADING PLAN		
C601	UTILITY PLAN		
C701	DETAILS		
C702	DETAILS		
C703	DETAILS		
CIVIL SHEETS TOTAL: 9			
3. LANDSCAPE ARCHITECTURE			
L101	IRRIGATION PLAN		
L102	IRRIGATION DETAILS		
L103	IRRIGATION DETAILS		
L201	PLANTING PLAN		
L202	PLANTING DETAILS		
LANDSCAPE ARCHITECTURE SHEETS TOTAL: 5			
4. ARCHITECTURAL DRAWINGS			
A-111	SITE PLAN & DETAILS		
A-112	SITE PLAN & DETAILS		
A-501	ENLARGED RESTROOM		
A-923	SIGNAGE DETAILS		
ARCHITECTURAL SHEETS TOTAL: 4			
8. ELECTRICAL ENGINEERING			
E000	GENERAL INFORMATION		
E100	SITE PLAN OVERALL		
E800	DETAILS		
ELECTRICAL SHEETS TOTAL: 3			
9. FABRIC SHADE STRUCTURE DSA P.C. 04-121917			
T-1.0	TITLE SHEET		
T-2.0	UNIT SELECTION		
T-3.0	T&I FORMS		
11.1-1000	PRODUCT INFORMATION		
11.2-2000	SPECIFICATIONS		
SHEETS TOTAL: 5			
10. SCOREBOARD DSA P.C. 04-122194			
SHEET1	SCOREBOARD PC COVER SHEET		
SHEET2	DSA 103 SPECIAL INSPECTION FORM		
SHEET3	DSA 103 SPECIAL INSPECTION FORM (CONT.)		
SHEET4	EQUIPMENT MOUNTING DETAILS (WITHOUT VIDEO DISPLAY)		
SHEET9	TWO-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS		
SHEETS TOTAL: 5			
OVERALL SHEET TOTAL: 36			

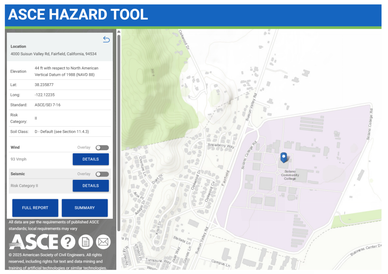
PROJECT LOCATION

SOLANO COMMUNITY COLLEGE



SITE DATA

ASCE HAZARD TOOL



REPORT SUMMARY

Wind

Wind Speed	93 Vmph
10-year MRI	64 Vmph
25-year MRI	70 Vmph
50-year MRI	75 Vmph
100-year MRI	79 Vmph

Seismic

S_S	1.516
S_1	0.6
F_a	1.2
F_v	N/A
S_{MS}	1.82
S_{M1}	N/A
S_{DS}	1.213
S_{D1}	N/A
T_L	8
PGA	0.602
PGA_M	0.722
F_{PGA}	1.2
I_e	1
C_v	1.403
NO SEISMIC SPECTRUM	Design and MCE$_R$ spectrum data not available for this location
Note	Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

STATEMENT OF GENERAL CONFORMANCE

THE PC DRAWINGS SHEETS LISTED BELOW ON THE SHEET INDEX OF THIS COVER HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT, AND IT APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR
2. INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF EDUCATION CODE, AND SECTIONS 4-336, 4-341 AND 4-334 OF TITLE 24, PART 1 (*TITLE 24, PART 1, SECTION 4-317 (B)*)".

I FIND THAT: ■ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
□ THIS DRAWING OR PAGE

■ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND

■ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE — DATE: 10/23/2024

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE:

PRINT NAME: Francis Chan

LICENSE NUMBER: C-7519 — EXPIRATION DATE: 12/31/25

AGENCY APPROVAL DSA# 02-122861

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

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C-7519
REN. 11-30-25
STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
TITLE SHEET

DRAWN BY: XX JOB NUMBER: 24056

SHEET NO.
G-001

DATE: FEBRUARY 14, 2025

DSA BACKCHECK

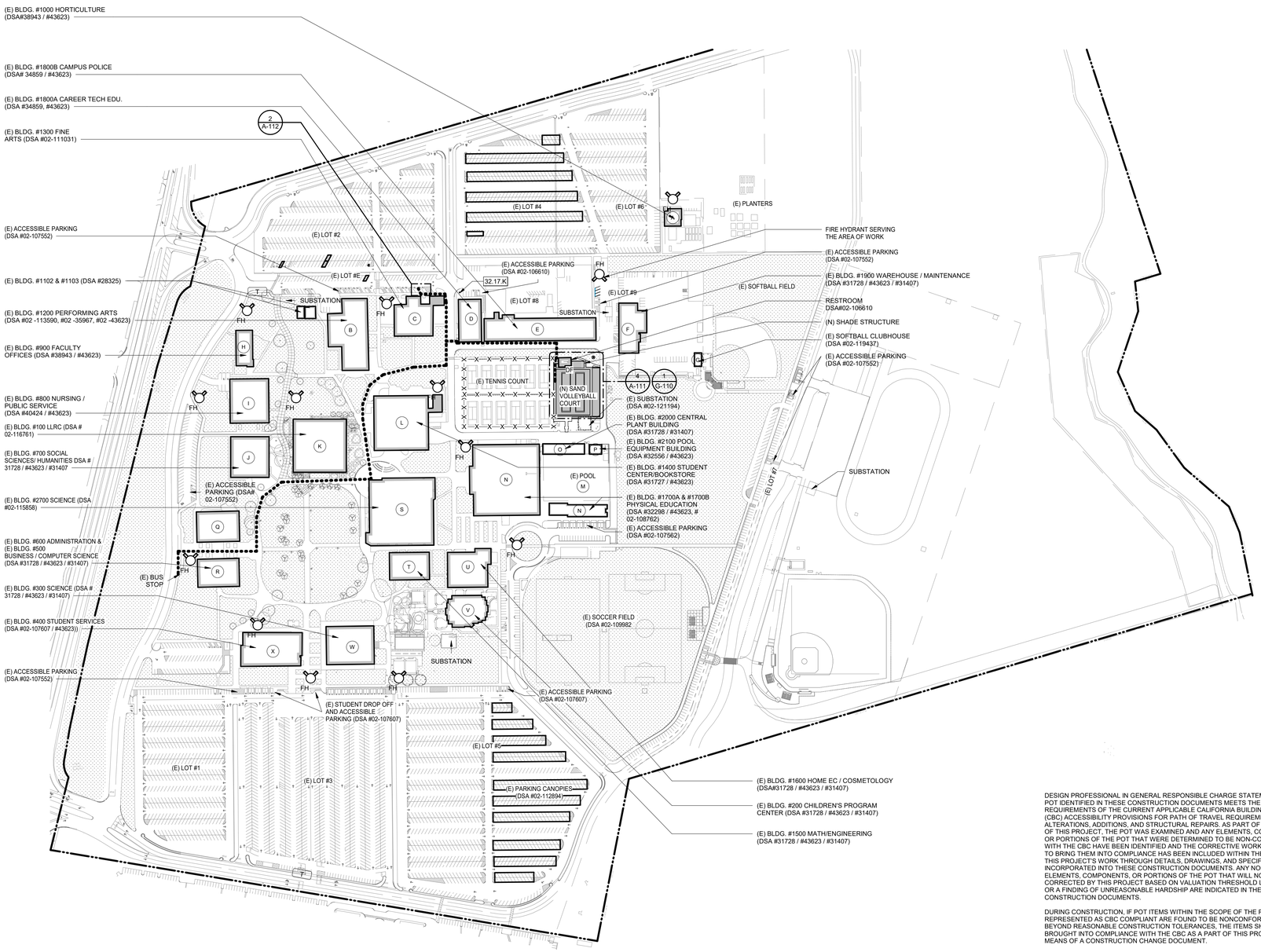
DATE PLOTTED: 5/13/2025 3:24:30 PM FILE LOCATION: C:\Users\rmarlin\Documents\24056 - Solano CC Sand Volleyball Complex_rmarlinN7Z37.rvt

BUILDING INFORMATION

BLDG	DESCRIPTION	BUILDING HEIGHT	BLDG. AREA ACTUAL UNIT AREA	D.S.A.#
	NEW SHADE STRUCTURE	18'-0"	600 SF	THIS APPLICATION
A	HORTICULTURE	30'-0"	15,701 SF	DSA#34943 / #43623
B	PERFORMING ARTS	29'-0"	25,251 SF	DSA #02-113590 / #35987 / #43623
C	FINE ARTS	38'-0"	12,400 SF	DSA#02-111031 / #40427 / #43623
D	CAREER TECH EDU.	12'-0"	8,960 SF	DSA #34859, #43623
E	CAMPUS POLICE	12'-0"	24,610 SF	DSA# 34859 / #43623 / #02-106610
F	WAREHOUSE / MAINTENANCE	29'-6"	10,730 SF	DSA #31728 / #43623 / #31407
G	SOFTBALL CLUBHOUSE	13'-0"	17,500 SF	DSA #02-119437
H	FACULTY OFFICES	13'-0"	2,447 SF	DSA #38943 / #43623
I	NURSING / PUBLIC SERVICE	16'-6"	17,856 SF	DSA #40424 / #43623 / @02-107608
J	SOCIAL SCIENCES/ HUMANITIES	16'-6"	16,864 SF	DSA #31728 / #43623 / #31407
K	LIBRARY / LEARNING CENTER	30'-0"	58,265 SF	DSA #02-116761
L	STUDENT CENTER/BOOKSTORE	23'-0"	30,976 SF	DSA #31727 / #43623
M	POOL		12,320 SF	DSA#02-120573 / #32556 / #43623
N-A	PHYSICAL EDUCATION	36'-0"	48,201 SF	#DSA #32298 / #43623 / #02-103762
N-B	PHYSICAL EDUCATION	13'-0"		DSA# 32556 / #43623
O	CENTRAL PLANT BUILDING	16'-6"	3,160 SF	DSA #31728 / #31407 #02-120573 / #02-120584
P	POOL EQUIPMENT BUILDING	10'-0"	3,500 SF	DSA #32556 / #43623
Q	ADMINISTRATION & BUSINESS	16'-6"	13,056 SF	DSA #31728 / #43623 / #31407
R	COMPUTER SCIENCE	16'-6"	11,616 SF	DSA #02-11343 / #31728 / #43623 / #31407
S	SCIENCE	20'-0"	48,000 SF	DSA #33490 / #33013 / #43623
T	MATH / ENGINEERING	16'-6"	11,616 SF	DSA #31728 / #43623 / #31407
U	HOME EC / COSMETOLOGY	16'-6"	14,336 SF	DSA #31728 / #43623 / #31407 / 02-122010
V	CHILDREN'S PROGRAM CENTER	26'-0"	9,562 SF	DSA #31728 / #43623 / #31407
W	SCIENCE	20'-0"	24,240 SF	DSA #31728 / #43623 / #31407
X	STUDENT SERVICES	33'-0"	1,440 SF	DSA #02-107607 / #43623
Y	(N) SHADE STRUCTURE	11'-9"	600 SF	DSA P.C. 04-122194

PARKING LOT #E- ANALYSIS

PARKING LOT	USER GROUP	TOTAL NUMBER OF STALLS	NUMBER OF ACC. STALLS REQUIRED	NUMBER OF ACC. STALLS PROVIDED	NUMBER OF VAN ACC. STALLS REQUIRED	NUMBER OF VAN ACC. STALLS PROVIDED
#E	VISITOR, STUDENT, FACULTY	81	4	31	1	3



DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

1" = 50'
0 50' 100'

PROJECT NORTH

SITE PLAN - OVERALL | 1" = 160'-0" | **10**

LEGEND - SITE PLAN GENERAL NOTES

1. SEE ELECTRICAL AND CIVIL DRAWINGS FOR UTILITIES.

KEYNOTES

32.17.K TOW-AWAY SIGNAGE, PER DETAIL 5 /-

LEGEND - SITE PLAN

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT
- (E) BUILDING
- (E) LANDSCAPING

PATH OF TRAVEL (P.O.T.)

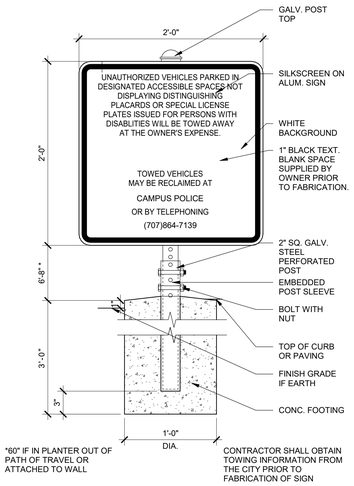
- THE PATH OF TRAVEL, AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE
- IS AT LEAST 48" WIDE.
- NO ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL
- THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH.
- PASSING SPACES (11B-403.2) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART.
- PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART.
- THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
- P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307).

X—X—X—X (E) FENCE LINE

FH (E) FIRE HYDRANT

T (E) TOW-AWAY SIGN

DF (N) ACCESSIBLE DRINKING FOUNTAIN (ALL GROUP)



(N) TOW AWAY SIGNAGE | 1/4" = 1'-0" | **5**

AGENCY APPROVAL DSA# 02-122861

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

196
185 CLARA STREET, SUITE 101A
SAN FRANCISCO, CA 94107
TEL 628.212.9200

CONSULTANTS

CIVIL ENGINEER
BLAIR, CHURCH & FLYNN
451 CLOVIS AVENUE, SUITE 200
CLOVIS, CA 93612
TEL (559) 326-1400

LANDSCAPE ENGINEER
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ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 YORK LANE
SAN RAMON, CA 94582
TE (913)961-1658

ARCHITECT STAMP | CONSULTANT STAMP

LICENSED ARCHITECT FRANCIS CHAN C-7519 REN. 11-30-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
CODE SITE PLAN

DRAWN BY: XX JOB NUMBER: 24056

SHEET NO.
G-101
DATE: FEBRUARY 14, 2025

DSA BACKCHECK

DATE PLOTTED: 2/19/2025 12:18:51 PM FILE LOCATION: C:\Users\rhan\Documents\24056 - Solano CC Sand Volleyball Complex_rhanKLMYC.rvt

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION
School District/Owner: Solano Community College District
Project Name/School: Solano Community College
Project Address: 4000 Suisun Valley Rd, Fairfield, CA 94534

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 4 STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

	CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✓	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			✓	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✓	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			✓	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: ____________ Title: ____________

Signature: ____________ Date: ____________

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: ____________ Date: ____________

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 2 of 4 STATE OF CALIFORNIA

BAY CITIES PYROTECTOR ***TRUST*** — *FIRE PROTECTION SERVICES YOU CAN*

Sprinklers~Alarms~Extinguishers~Suppression Systems~Emergency Lighting~DOT Certified Shop~Monitoring~Web-based Reports

Date: 1.30.24

Property Name: Solano Community College

Address: 4000 Suisun Valley Road Fairfield, CA 94534

Hydrant Location: See map location

Water Supply: City Water

Test Hydrant # 13

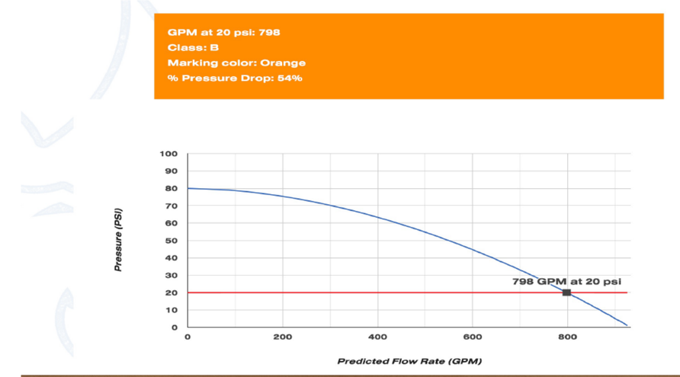
Flow Time: 1 minute

Purpose of Test: NA

Static Pressure (PSI): 80

Residual Pressure (PSI): 37

Total Test Flow Rate (GPM): 667



1315 67th Street Emeryville CA 94608 ~ Phone 510.450.7760 ~ Fax 510.450.7764 • www.baycitiesfire.com 1
CA License C-10/C-16
#792704

KEYNOTES

27.15.A (E) WALL MOUNTED JUNCTION BOX "FA" FOR FIRE ALARM, PER DSA # 02-106610

LEGEND - LOCAL FIRE AUTHORITY PLAN

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT
- (E) BUILDING
- (E) LANDSCAPING
- SAFE DISPENSAL AREA
- FIRE ACCESS ROUTE
- X—X—X—X (E) FENCE LINE
- FH (E) FIRE HYDRANT
- EXIT DISCHARGE PATH
- (E) LIGHT POLE
- (E) SITE LIGHTING

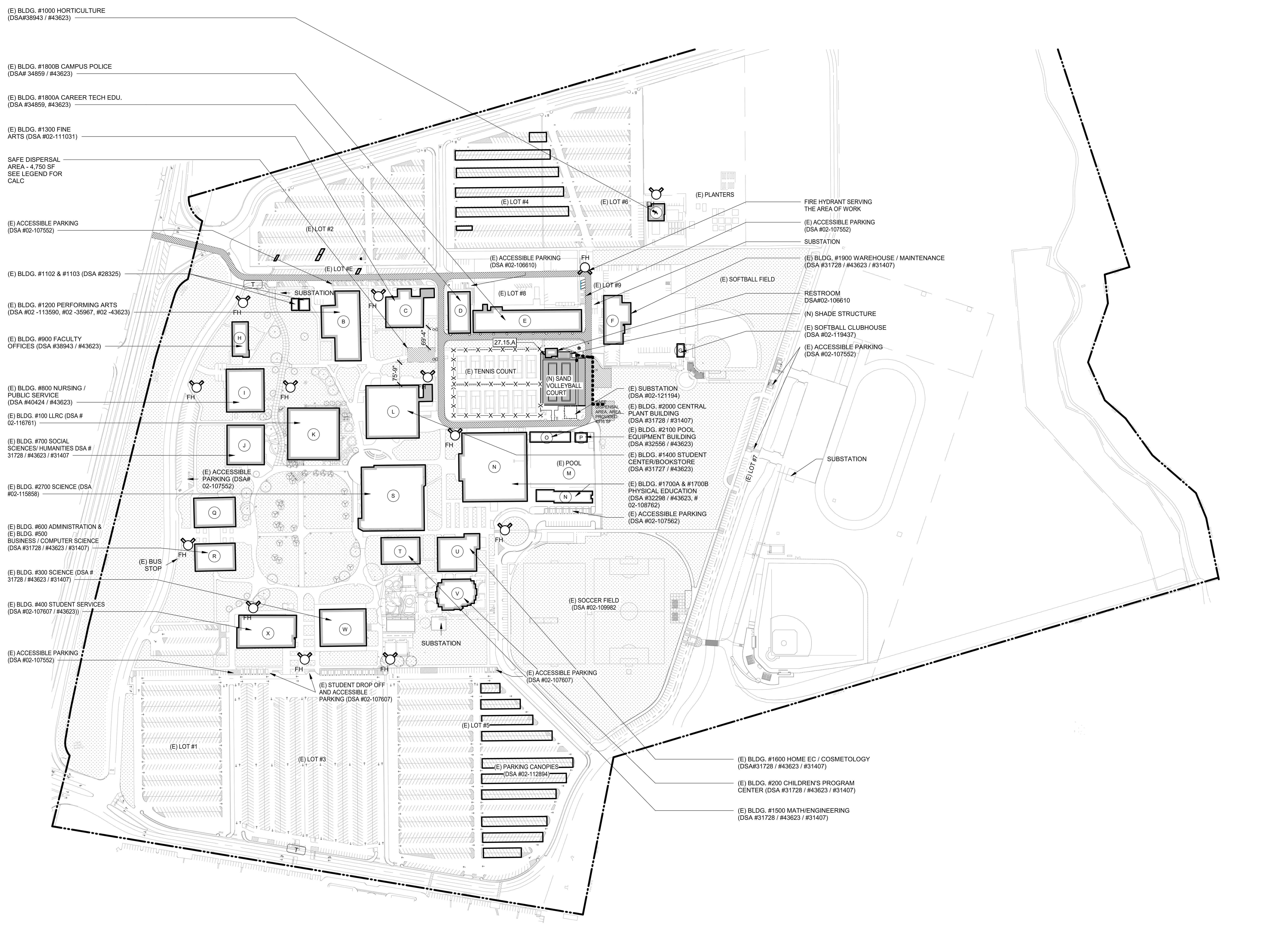
SAFE DISPENSAL AREA

OCCUPANCY CALCULATION SEE SHEET G-110

TOTAL : 889 OCCUPANTS

SAFE DISPENSAL AREA CALCULATION (PER CBC 1028.5, 5 SF PER OCCUPANT):

REQUIRED SAFE DISPERSAL AREA: 889 OCCUPANTS × 5 SF = 4,445 SF
AREA PROVIDED:4750 SF = OK



SITE PLAN - OVERALL FIRE ACCESS PLAN | 1" = 160'-0" | 1

AGENCY APPROVAL DSA# 02-122861

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19·6

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SHEET TITLE
LOCAL FIRE AUTHORITY PLAN

DRAWN BY: XX JOB NUMBER: 24056

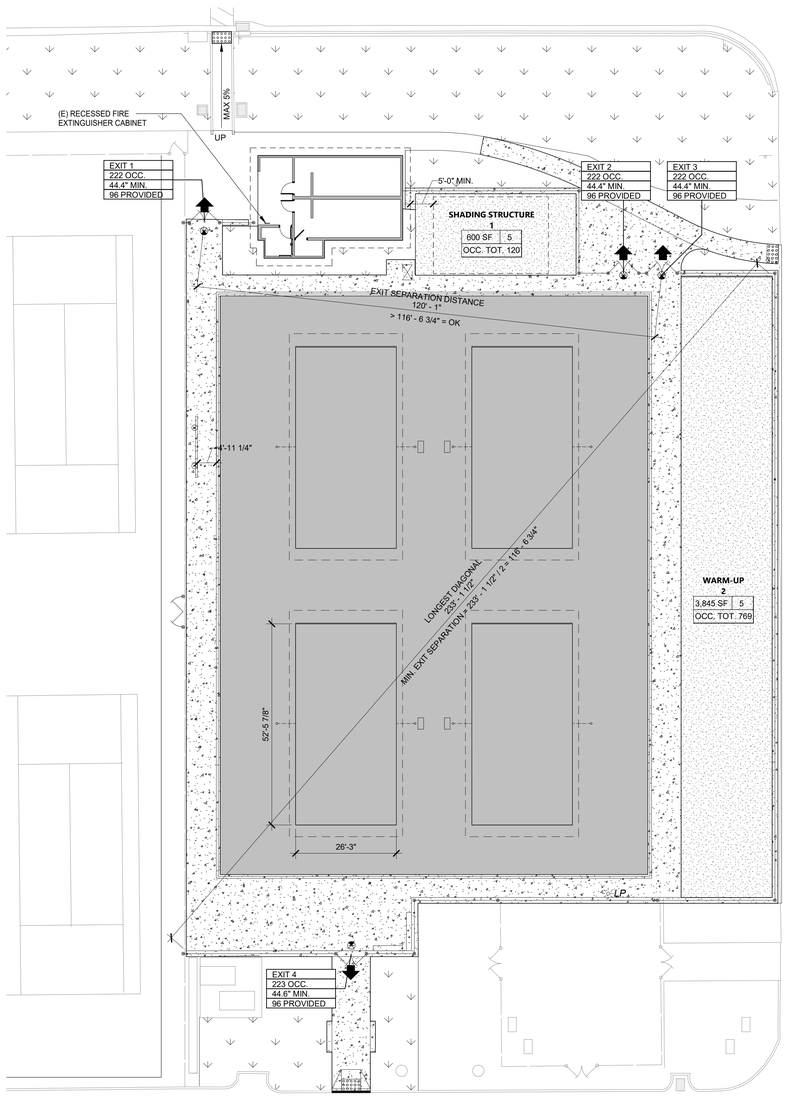
SHEET NO.
G-102

DATE: FEBRUARY 14, 2025

DSA BACKCHECK

FILE LOCATION: C:\Users\marlin\Documents\24056 - Solano CC Sand Volleyball Complex_marlinN7Z37.rvt

DATE PLOTTED: 2/19/2025 12:18:51 PM



ENLARGED CODE SITE PLAN

1/16" = 1'-0" | 1

OCCUPANT CHART PER 2022 CBC TABLE 1004.5

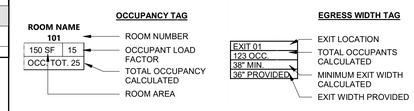
ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1
1	SHADING STRUCTURE	ASSEMBLY WITHOUT FIXED SEATS STANDING SPACE	600 SF	5 SF	120	A-3	49
2	WARM-UP	ASSEMBLY WITHOUT FIXED SEATS STANDING SPACE	3,845 SF	5 SF	769	A-3	49
OCCUPANT TOTAL:					889		

NUMBER OF EXITS
PER CBC SECTION 1006.2.1.1 THREE EXITS OR EXIT ACCESS DOORWAYS SHALL BE PROVIDED FROM ANY SPACE WITH AN OCCUPANT LOAD OF 501 TO 1,000.

TOTAL OCCUPANTS: 889

TOTAL NUMBER OF EXITS REQUIRED: 3
TOTAL NUMBER OF EXITS PROVIDED: 4 = OK

LEGEND - CODE ANALYSIS



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DRAWN BY: XX JOB NUMBER: 24056

SHEET NO.
G-110

DATE: FEBRUARY 14, 2025

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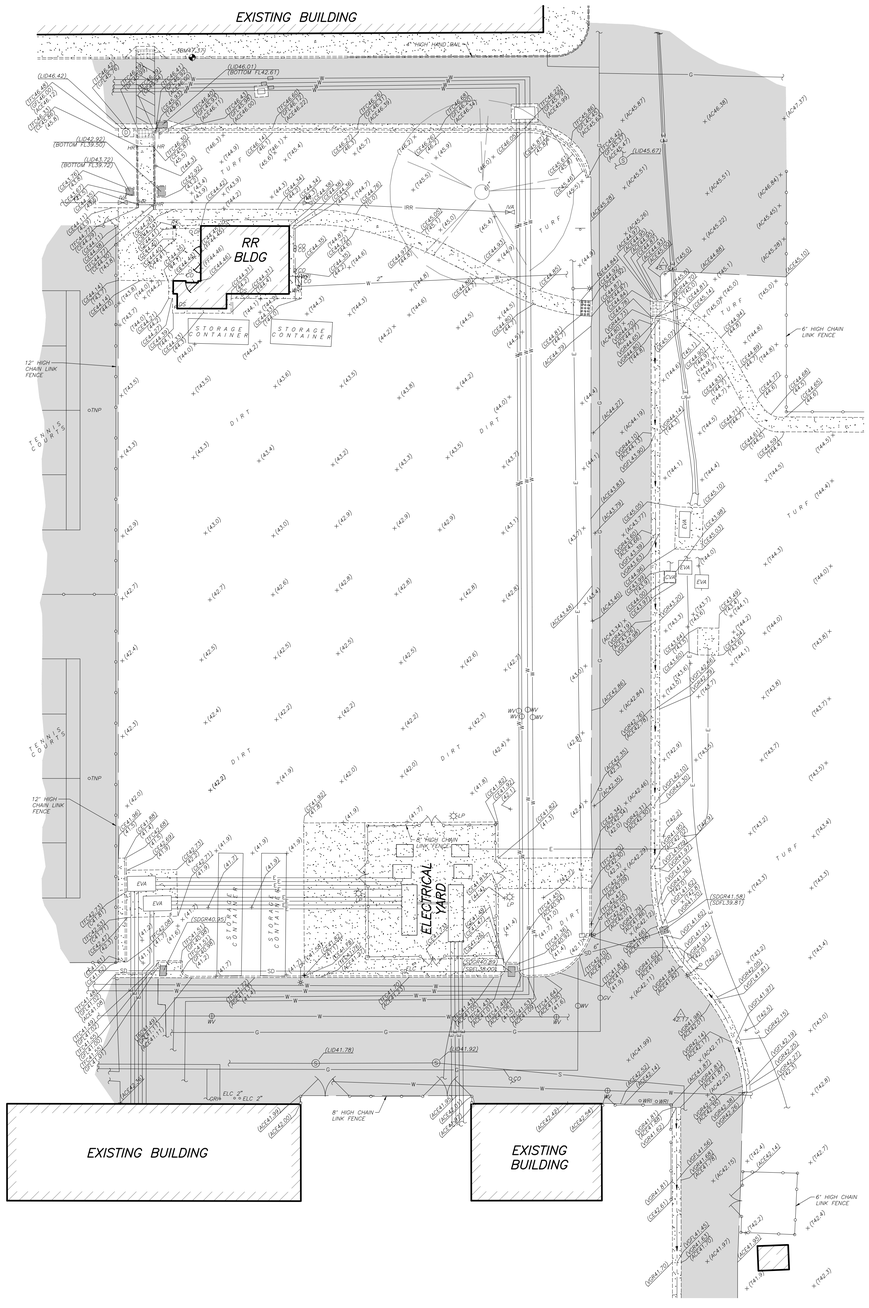
DATE PLOTTED: 6/3/2025 3:08:47 PM FILE LOCATION: C:\Users\rmartin\Documents\24056 - Solano CC Sand Volleyball Complex_rmartinN7Z37.rvt



TOPOGRAPHIC SURVEY LEGEND:

- (41.82) EXISTING ELEVATION
- AC ASPHALTIC CONCRETE
- ACE ASPHALTIC CONCRETE EDGE
- C CONCRETE
- CE CONCRETE EDGE
- CVA COMMUNICATION VAULT
- CW CONCRETE WALL
- EVA ELECTRICAL VAULT
- FF FINISH FLOOR
- GB GRADE BREAK
- GFL GUTTER FLOWLINE
- LID UTILITY LID
- SDGR STORM DRAIN GRATE
- SDFL STORM DRAIN FLOW LINE
- T TURF
- TFC TOP FACE OF CURB
- VGR VALLEY GUTTER
- BACKFLOW ASSEMBLY
- BM=BENCHMARK; OR SBM=SITE BENCHMARK
- CO CLEANOUT
- 312.55 SURVEY CONTROL MONUMENT
- DF DRINKING FOUNTAIN
- DOOR/GATE
- DS DOWNSPOUT
- ELC ELECTRICAL CONDUIT
- EPB ELECTRICAL PULLBOX
- GR GAS RISER
- GV GAS VALVE
- HR HANDRAIL
- LP LIGHT POLE
- RS ROOF SUPPORT
- TNP TENNIS NET POLE
- STORM DRAIN MANHOLE
- SIGN
- STREET LIGHT
- SEWER MANHOLE
- TREE; SPREAD SHOWN GRAPHICALLY AND TRUNK DIAMETER AS SHOWN
- WATER METER
- WR WATER RISER
- WV WATER VALVE
- ASPHALT PAVEMENT
- BUILDING
- LIMITS OF CONCRETE
- DETECTABLE WARNINGS
- CHAIN LINK FENCE
- EDGE OF ASPHALT PAVEMENT
- DIRECTION OF FLOW
- E UNDERGROUND ELECTRIC
- G GAS LINE; SIZE AS NOTED
- SD STORM DRAIN LINE; SIZE AS NOTED
- S SEWER LINE; SIZE AS NOTED
- W WATER LINE; SIZE AS NOTED
- C COMMUNICATION LINE

SITE BENCHMARK:

CHISELED "X" ON TOP OF CURB APPROXIMATELY 55'± NORTH OF THE NORTHWEST CORNER OF THE EXISTING RESTROOM BUILDING.

ELEV.= 47.37 NAVD88 DATUM

SURVEY NOTES:

1. *THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON MAY 30, 2024.*
2. *UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER. TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.*

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

811 Know what's below. Call before you dig.

AGENCY APPROVAL DSA#

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3533 YORK LANE
SAN RAMON, CA 94582
TE (913)961-1658

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER
ROBERT D. CHURCH
No. 67218
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
TOPOGRAPHIC SURVEY

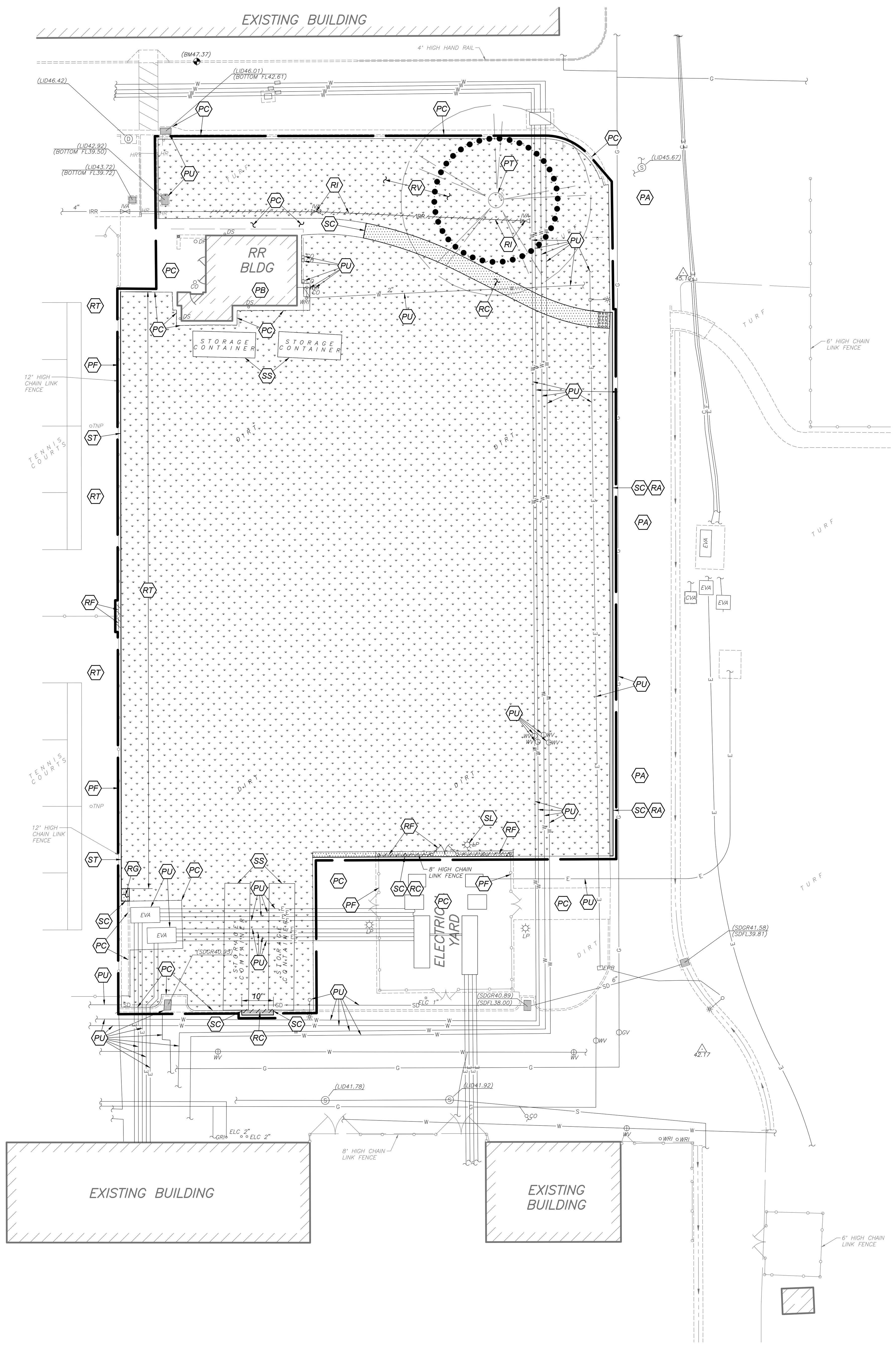
DRAWN BY: TJ JOB NUMBER: 24056

SHEET NO.
C101

DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 2/06/2025 4:49:23PM PLOT BY: TJMFLYNN FILE LOCATION: P:\2024\24178\Site\Production\Drawings\24178sp01.dwg

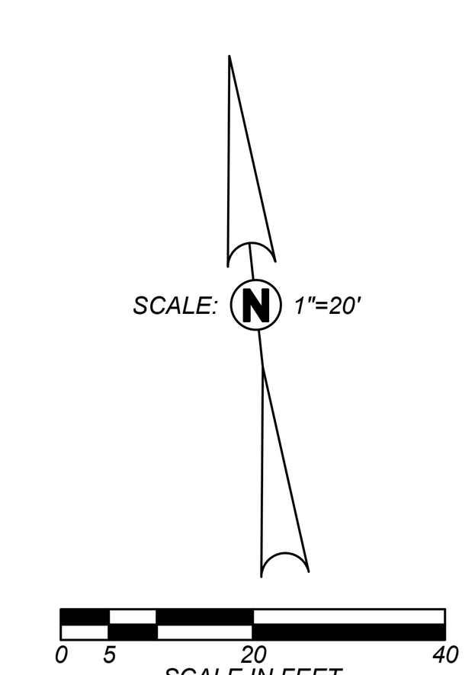


DEMOLITION LEGEND:

Symbol	Description
(dashed line)	REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1
(hatch)	LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH
(shading)	LIMITS OF ASPHALTIC CONCRETE IMPROVEMENT REMOVAL
(dotted line)	APPROXIMATE LIMITS OF TREE PROTECTION ZONE (TPZ) PER THE PROJECT SPECIFICATIONS. SEE NOTE 12
PA	PROTECT ASPHALT CONCRETE PAVEMENT TO REMAIN
PB	PROTECT BUILDING TO REMAIN
PC	PROTECT CONCRETE IMPROVEMENTS TO REMAIN
PF	PROTECT FENCE TO REMAIN
PT	PROTECT TREE TO REMAIN
PU	PROTECT UTILITY TO REMAIN
RA	REMOVE ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION
RC	REMOVE CONCRETE IMPROVEMENTS
RF	REMOVE CHAIN LINK FENCE FABRIC, POSTS AND FOOTINGS
RG	REMOVE CONCRETE CONCRETE CURB AND GUTTER SECTION
RI	ABANDON EXISTING TRANSITE IRRIGATION MAIN LINE IN PLACE. SALVAGE EXISTING CONCRETE IRRIGATION VALVE BOXES AND EQUIPMENT TO OWNER
RT	SAWCUT A STRAIGHT LINE ALONG THE EDGE OF THE ASPHALT ON THE OUTSIDE EDGE OF THE EXISTING FENCE, AS CLOSE AS POSSIBLE TO THE FENCE POSTS AND REMOVE EXCESS ASPHALT
RV	REMOVE VEGETATION
SC	SAWCUT
SL	SALVAGE SIGHT LIGHT TO BE RELOCATED
SS	SALVAGE EXISTING STORAGE CONTAINERS AND RELOCATE THEM TO A SPOT ON CAMPUS THAT IS IDENTIFIED BY THE CAMPUS FACILITY MANAGEMENT TEAM
ST	SAWCUT ALONG THE EDGE OF THE ASPHALT TENNIS COURT TO REMOVE LOOSE AND DETIORATING ASPHALT FOR A CLEAN EDGE TO MATCH THE PROPOSED SIDEWALK TO
(line)	LIMIT OF CONCRETE CURB REMOVAL
(line)	LIMIT OF CHAIN LINK FENCE REMOVAL
(line)	LIMIT OF IRRIGATION MAIN LINE REMOVAL / ABANDONMENT
(line)	LIMIT OF IRRIGATION LATERAL LINE REMOVAL / ABANDONMENT

GENERAL DEMOLITION NOTES:

1. THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
2. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
4. THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
5. CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
6. ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
7. CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
8. ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
9. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
   a) FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
   b) FOR ASPHALTIC PAVEMENT REMOVAL. SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.
10. REFER TO ELECTRICAL, IRRIGATION AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.
11. COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.
12. CONTRACTOR SHALL PROVIDE A TREE PROTECTION ZONE FOR ALL TREES THAT ARE TO REMAIN WITHIN THE PROJECT BOUNDARY. THE TREE PROTECTION ZONE SHALL BE ADJUSTED AS APPROPRIATE FOR THE COMPLETION OF THE WORK BUT AT NO TIME SHALL IT BE LESS THAN REQUIRED BY THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL PROVIDE AN ARBORIST REPORT TO THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO COMMENCEMENT OF DEMOLITION WORK ON THE SITE PER THE PROJECT SPECIFICATIONS.



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AGENCY APPROVAL DSA#

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

19·6
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SAN FRANCISCO, CA 94107
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LANDSCAPE ENGINEER
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ELECTRICAL ENGINEER
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3533 YORK LANE
SAN RAMON, CA 94582
TE (913)961-1658

CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
DEMOLITION PLAN

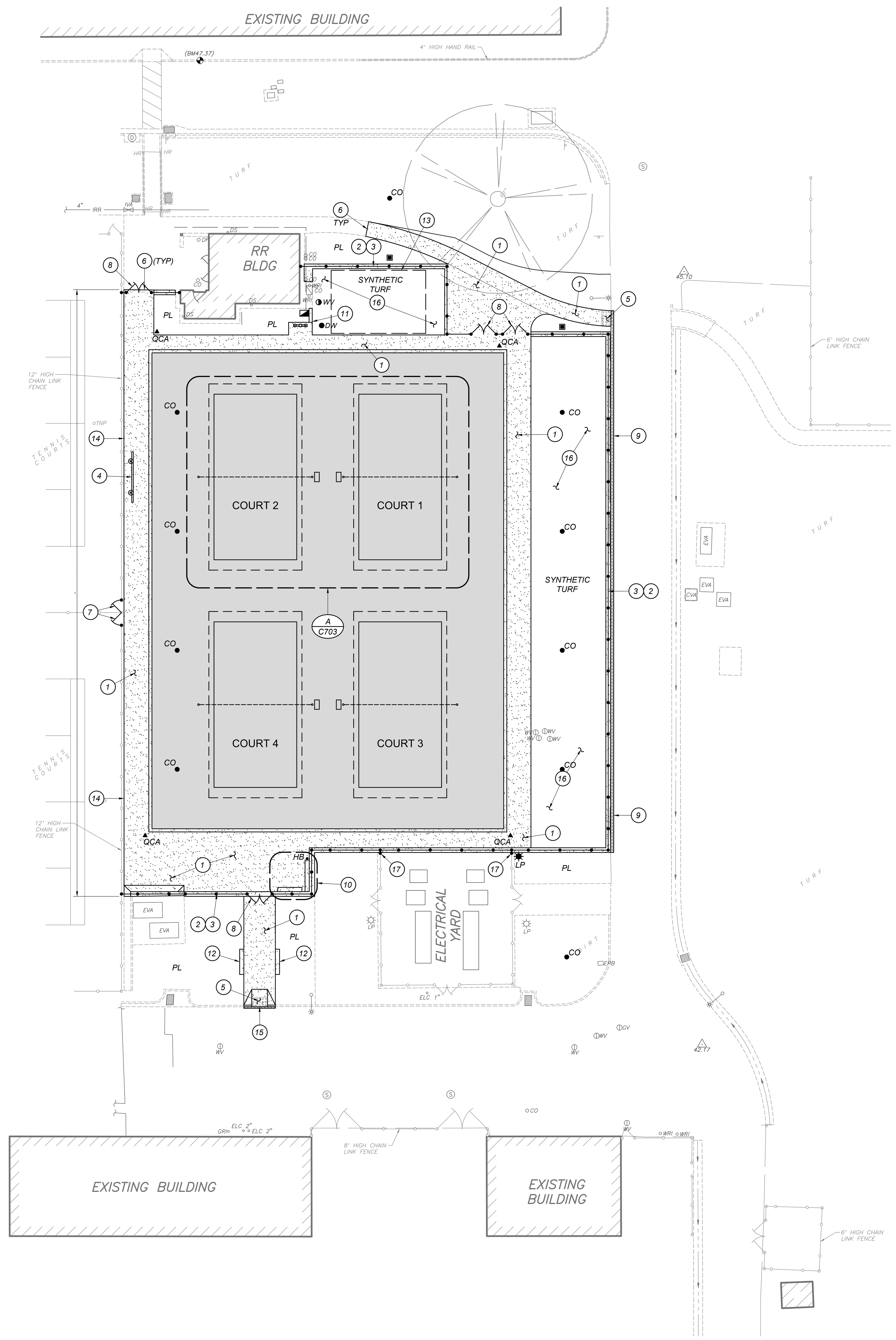
DRAWN BY: TJ JOB NUMBER: 24056

SHEET NO.
C201

DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 2/06/2025 4:49:32PM PLOT BY: TJMFLYNN FILE LOCATION: P:\224-0178\Site\ProductionDrawings\224178demo01.dwg



SITE LEGEND:

Symbol	Description
A / C701	DETAIL DESIGNATION; DETAIL REFERENCE; SHEET LOCATION
[A/C701]	[DETAIL DESIGNATION / SHEET LOCATION]
	LIMITS OF CONCRETE IMPROVEMENTS
	LIMITS OF ASPHALT PLUG IMPROVEMENTS
	LIMITS OF BEACH VOLLEYBALL COURT SAND BASE
	CHAIN LINK FENCING PER THE ARCHITECTURAL PLANS
	NEW CHAIN LINK GATES PER THE ARCHITECTURAL PLANS, SEE HORIZONTAL CONTROL PLAN FOR WIDTH. HEIGHT TO MATCH ADJACENT FENCE UNLESS NOTED OTHERWISE
●CO	CLEANOUT, SEE GRADING PLAN
	DRINKING FOUNTAIN, SEE UTILITY PLAN
●DW	DRYWELL, SEE UTILITY PLAN
LP	RELOCATED SITE LIGHT POLE, SEE ELECTRICAL PLANS
▲QC	QUICK COUPLER, SEE UTILITY PLAN
WV	WATER VALVE, SEE UTILITY PLANS
PL	PLANTER, SEE PLANTING PLANS
1	CONCRETE WALK PER DETAIL [A/C701].
2	CONCRETE FENCE MOWSTRIP, REFER TO ARCHITECTURAL PLANS
3	CHAIN LINK FENCING, SEE ARCHITECTURAL PLANS
4	ELECTRICAL AND LIGHTING CONTROL PANELS AND BACKBOARD PER ELECTRICAL PLANS
5	DETECTABLE WARNING SURFACE PER DETAIL [H/C701]
6	DOWEL PROPOSED CONCRETE TO EXISTING CONCRETE PER DETAIL [C/C701]
7	SINGLE SWING GATE, SEE ARCHITECTURAL PLANS
8	DOUBLE SWING GATE, SEE ARCHITECTURAL PLANS
9	ASPHALT PLUG PER DETAIL [D/C701]
10	WASH-DOWN AREA, SEE ENLARGEMENT DETAIL [E/C701]
11	CONCRETE MOWSTRIP PER DETAIL [B/C701]
12	8' LONG CONCRETE SEAT WALL PER DETAIL [F/C701]
13	20' x 30' SHADE STRUCTURE, SEE ARCHITECTURAL PLANS
14	FINISH CONCRETE SIDEWALK FLUSH WITH ASPHALT TENNIS COURT PAVING TO PROVIDE A SMOOTH TRANSITION AND CONTINUATION OF EXISTING DRAINAGE PATTERN
15	CONCRETE CURB RAMP PER DETAIL [G/C701]
16	SYNTHETIC TURF, BLUE, CORK INFILL, PER DETAIL [H/C703]
17	PROVIDE NEW FENCE END-POST FOR EXISTING FENCE

BID ALTERNATE SCHEDULE:

1. PRE-CHECK SHADE STRUCTURE
2. PRE-CHECK DIGITAL SCOREBOARD
3. UNDERGROUND RACEWAYS FOR FUTURE SITE LIGHTING

SPECIFICATIONS:

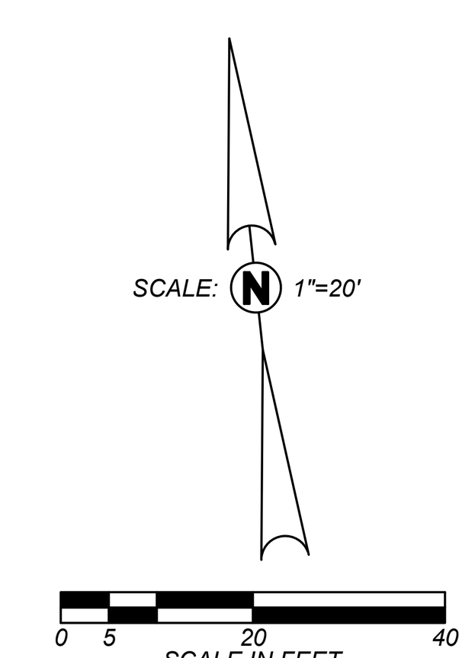
CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS BOOK AND THE SOLANO COMMUNITY COLLEGE STANDARD SPECIFICATIONS AND DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE SPECIFICATIONS BOOK AND THE SCC STANDARD SPECIFICATIONS AND DRAWINGS, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ATTENTION OF THE DESIGN TEAM.

GENERAL SITE NOTES:

1. ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/C701]
2. INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [C/C701]
3. NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
4. ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
5. ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.
6. 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444
7. ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.
8. ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [B/C702]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICULAR AREAS.

CAST-IN-PLACE CONCRETE NOTES:

1. ALL CAST-IN-PLACE CONCRETE SHALL BE PROVIDED TO THE FOLLOWING STANDARDS:
   a. CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, LATEST EDITION
   b. ACI 304, 305, 306, 308, 309, 318, AND 347
   c. ASTM C-33, C-39, C-94, C-136, C-143, C-150, AND C-309
   d. SOLANO COMMUNITY COLLEGE DISTRICT STANDARD 32 12 33 AND 32 32 13
2. SUBMIT PROPOSED CONCRETE MIX, POUR PLAN, AND CURING METHODOLOGY TO THE ENGINEER OF RECORD FOR REVIEW AT LEAST 7 DAYS PRIOR TO CONCRETE DELIVERY; SUBMIT LOAD TAGS FOR DELIVERED MATERIAL
3. CONCRETE CYLINDER STRENGTH TESTING SHALL BE COMPLETED AT A RATE OF ONE SET OF CYLINDERS FOR EVERY 10 CUBIC YARDS OF PLACED CONCRETE
4. CONCRETE MIX DESIGN AND PROPORTIONS SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS
   a. MIX DESIGNS WITH FLY ASH CONTENT NO GREATER THAN 15 PERCENT OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS SHALL BE PROPORTIONED PER THE CALTRANS STANDARD SPECIFICATIONS
   b. PROVIDE A MAXIMUM OF 4.5 PERCENT AIR ENTRAINMENT, UNLESS NOTED OTHERWISE.
   c. ALL CONCRETE USED FOR SEATWALLS SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS
      i. STRENGTH: 4,000 PSI AT 28 DAYS
      ii. MAXIMUM AGGREGATE SIZE: 1-INCH
      iii. CEMENT TYPE: TYPE II
      iv. CEMENT CONTENT: 6.5 SACKS/YD MINIMUM
      v. MAXIMUM WATER/CEMENT RATIO: 0.44 (NON-AIR-ENTRAINED) 0.35 (AIR-ENTRAINED)
      vi. ADMIXTURE: PER CALTRANS STD SPEC
   d. ALL CONCRETE USED FOR SITE FLATWORK SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS
      i. STRENGTH: 3,000 PSI AT 28 DAYS
      ii. MAXIMUM AGGREGATE SIZE: 3/4-INCH
      iii. CEMENT TYPE: TYPE II
      iv. CEMENT CONTENT: 5.5 SACKS/YD MINIMUM
      v. MAXIMUM WATER/CEMENT RATIO: 0.50
      vi. ADMIXTURE: PER CALTRANS STD SPEC
   e. SAND-CEMENT SLURRY USED FOR EARTHWORK/TRENCH BACKFILL SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS
      i. MAXIMUM AGGREGATE SIZE: 3/8-INCH
      ii. CEMENT TYPE: TYPE II
      iii. CEMENT CONTENT: 2.0 SACKS/YD MINIMUM
5. CONCRETE SHALL BE PLACED TO GRADES AND LINES WITHIN 1/8" TOLERANCE OF DESIGN
6. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEPARATION OF AGGREGATES; MAXIMUM UNCONFINED DROP OF CONCRETE SHALL NOT EXCEED FIVE (5) FEET
7. CONCRETE SHALL BE VIBRATED WITH A GRID OF METAL BARS; TIME OF VIBRATION SHALL ENSURE THAT ALL AIR VOIDS ARE ELIMINATED BUT SHALL BE LIMITED TO PREVENT AGGREGATE FROM FALLING OUT OF SUSPENSION
8. CONCRETE SHALL BE WETTED AND CURED IN ACCORDANCE WITH ACI STANDARDS
9. WHERE CONCRETE IS BEING INSTALLED ADJACENT TO OR NEAR EXISTING CONCRETE IMPROVEMENTS, MATCH THE FINISH OF SIMILAR CONCRETE SURFACES (I.E. NEW SIDEWALKS SHALL MATCH EXISTING SIDEWALKS, NEW CURBS SHALL MATCH EXISTING CURBS, ETC.).
10. SIDEWALKS AND MOWSTRIPS: MEDIUM SWEAT FINISH OR MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
11. CURBS: TROWEL SMOOTH AND FINISH WITH A LIGHT BRUSH.
12. GUTTERS: MEDIUM BROOM FINISH PARALLEL WITH CURB OR DIRECTION OF FLOW.
13. DRIVE APPROACHES AND WHEELCHAIR RAMPS: MEDIUM BROOM FINISH, PERPENDICULAR TO THE DIRECTION OF TRAVEL.



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AGENCY APPROVAL DSA#

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APP: 02-122861 INC:
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DATE: 06/03/2025

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CONSULTANT STAMP

REVISIONS

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SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
SITE PLAN

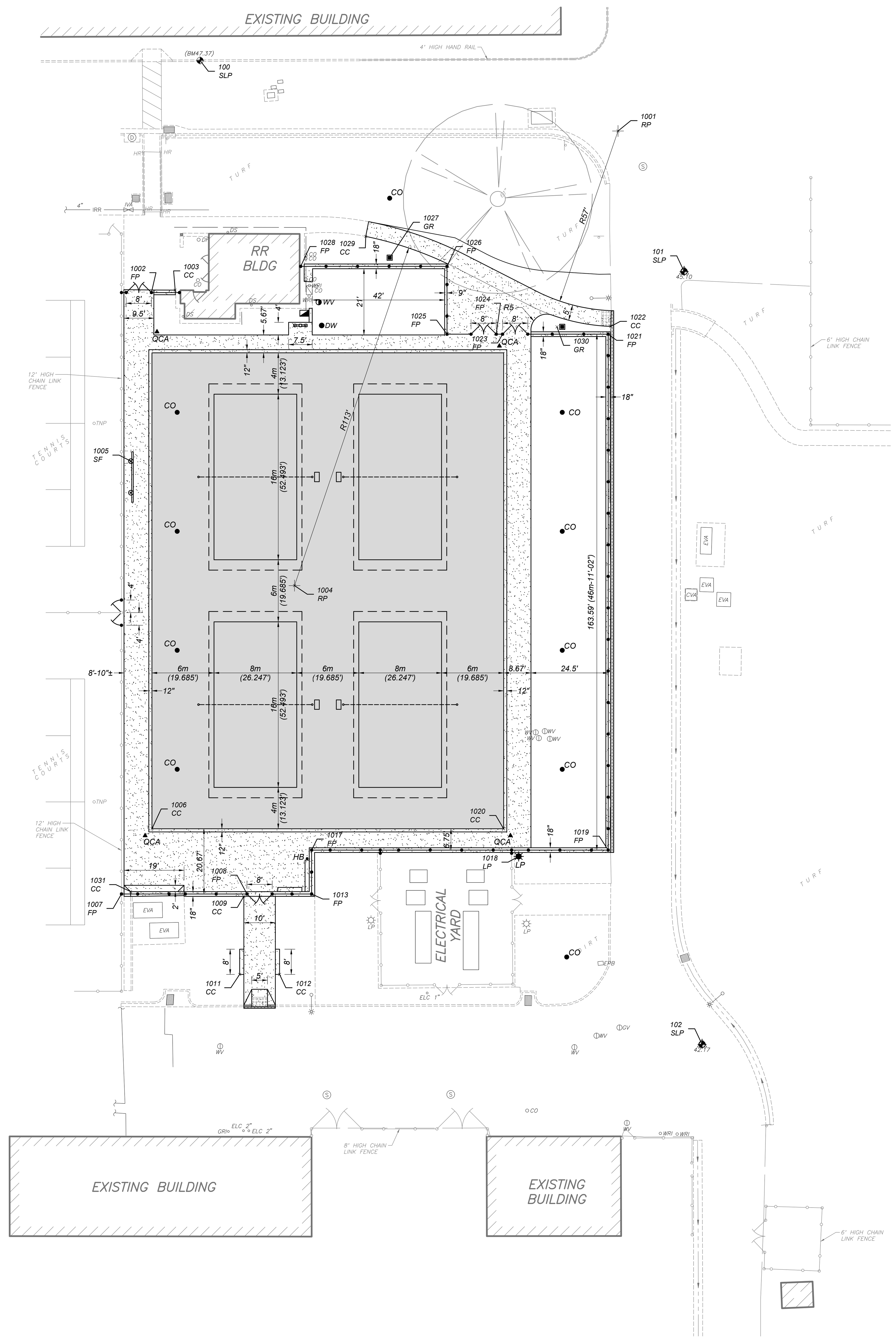
DRAWN BY: TJ JOB NUMBER: 24056

SHEET NO.
C301

DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 2/06/2025 4:49:42PM
PLOT BY: TJMFLYNN
FILE LOCATION: P:\224-0178\Site\ProductionDrawings\224178s01.dwg



NORTHING EASTING TABLE				
POINT	NORTHING	EASTING	ABV	DESCRIPTION
100	1847952.73	6527084.31	SLP	SITE LAYOUT POINT
101	1847869.82	6527229.83	SLP	SITE LAYOUT POINT
102	1847625.54	6527209.33	SLP	SITE LAYOUT POINT
1001	1847916.33	6527213.74	RP	RADIUS POINT
1002	1847881.21	6527061.12	FP	FENCE POST
1003	1847881.19	6527068.68	CC	CORNER CONCRETE
1004	1847783.98	6527096.31	RP	RADIUS POINT
1005	1847828.74	6527048.94	SF	SCOREBOARD FOOTING
1006	1847712.14	6527043.12	CC	CORNER CONCRETE
1007	1847692.63	6527031.30	FP	FENCE POST
1008	1847688.37	6527070.89	FP	FENCE POST
1009	1847687.73	6527069.81	CC	CORNER CONCRETE
1011	1847663.27	6527065.84	CC	CORNER CONCRETE
1012	1847661.92	6527078.44	CC	CORNER CONCRETE
1013	1847686.18	6527091.27	FP	FENCE POST
1017	1847700.02	6527092.75	FP	FENCE POST
1018	1847691.02	6527157.85	LP	LIGHT POLE
1019	1847689.97	6527186.29	FP	FENCE POST
1020	1847700.23	6527154.03	CC	CORNER CONCRETE
1021	1847852.62	6527203.76	FP	FENCE POST
1022	1847854.97	6527204.82	CC	CORNER CONCRETE
1023	1847856.20	6527170.45	FP	FENCE POST
1024	1847856.42	6527168.46	FP	FENCE POST
1025	1847858.08	6527152.93	FP	FENCE POST
1026	1847879.46	6527155.22	FP	FENCE POST
1027	1847884.14	6527137.43	GR	STORM DRAIN GRATE
1028	1847884.42	6527109.07	FP	CORNER CONCRETE
1029	1847891.66	6527130.61	CC	CORNER CONCRETE
1030	1847856.65	6527187.86	GR	STORM DRAIN GRATE
1031	1847693.06	6527034.26	CC	CORNER CONCRETE

HORIZONTAL CONTROL LEGEND:

100 LCP	LAYOUT COORDINATE POINT
100 SLP	SITE LAYOUT POINT
CC	CORNER CONCRETE
FP	FENCE POST
GR	STORM DRAIN GRATE
RP	RADIUS POINT
SF	SCOREBOARD FOOTING

GENERAL HORIZONTAL CONTROL NOTES:

1. ALIGNMENT OF THE SITE LAYOUT GRID IS BASED ON AN ASSUMED COORDINATE SYSTEM.
2. SITE LAYOUT POINT 100 IS THE SITE BENCHMARK, A CHISELED 'X' ON TOP OF CURB APPROXIMATELY 55± NORTH OF THE NORTHWEST CORNER OF THE EXISTING RESTROOM BUILDING.
3. SITE LAYOUT POINT 101 IS A NAIL AN TIN EMBEDDED IN THE ASPHALT PAVEMENT APPROXIMATELY 123'± DIRECTLY EAST OF THE EXISTING RESTROOM BUILDING.
4. SITE LAYOUT POINT 102 IS A NAIL AND TIN EMBEDDED IN THE ASPHALT PAVEMENT APPROXIMATELY 63'± SOUTHEAST OF THE SOUTHEAST CORNER OF THE EXISTING ELECTRICAL YARD.
5. DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.

SCALE: 1"=20'

0 5 20 40
SCALE IN FEET

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4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
HORIZONTAL CONTROL PLAN

DRAWN BY: TJ JOB NUMBER: 24056

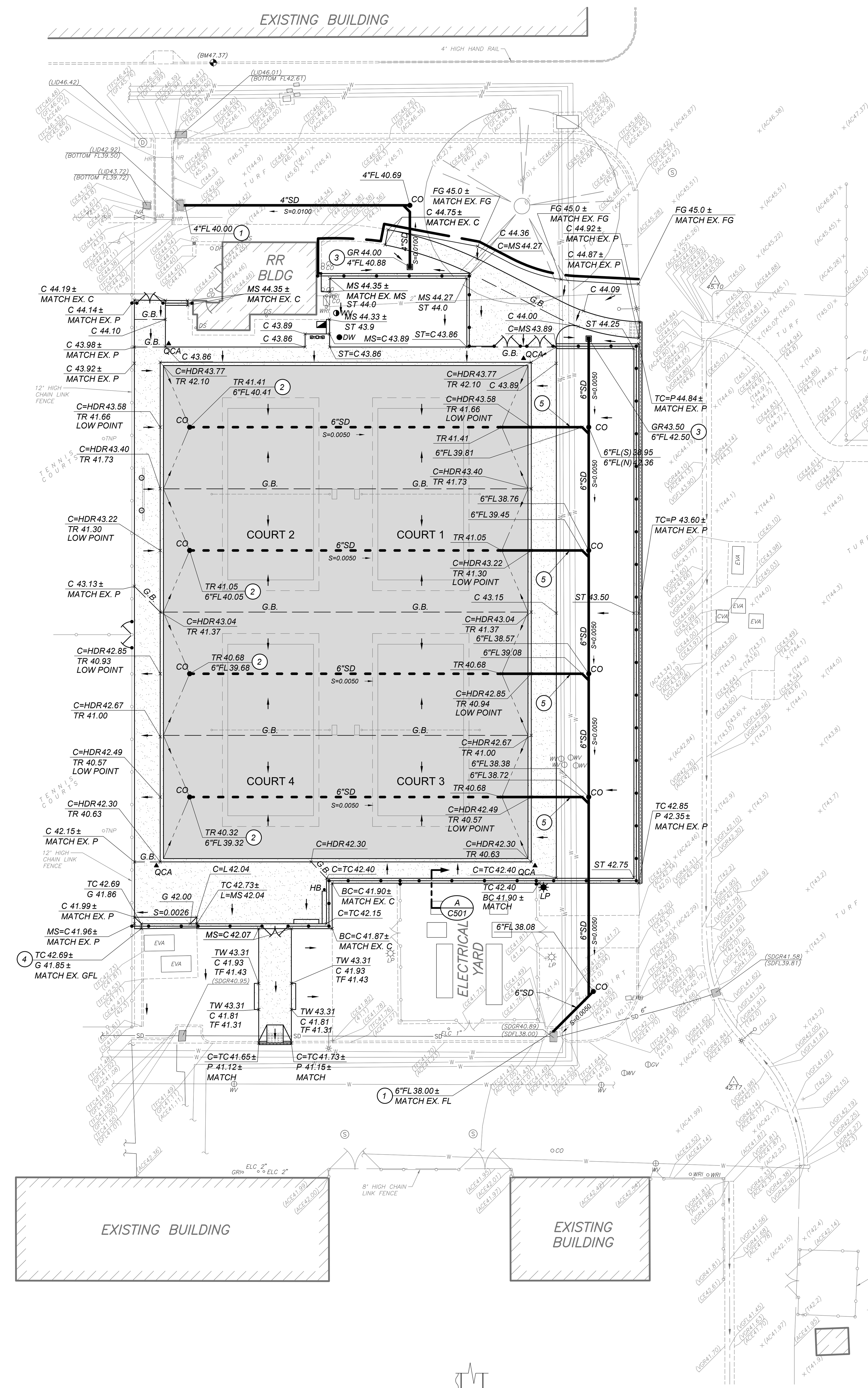
SHEET NO.
C401

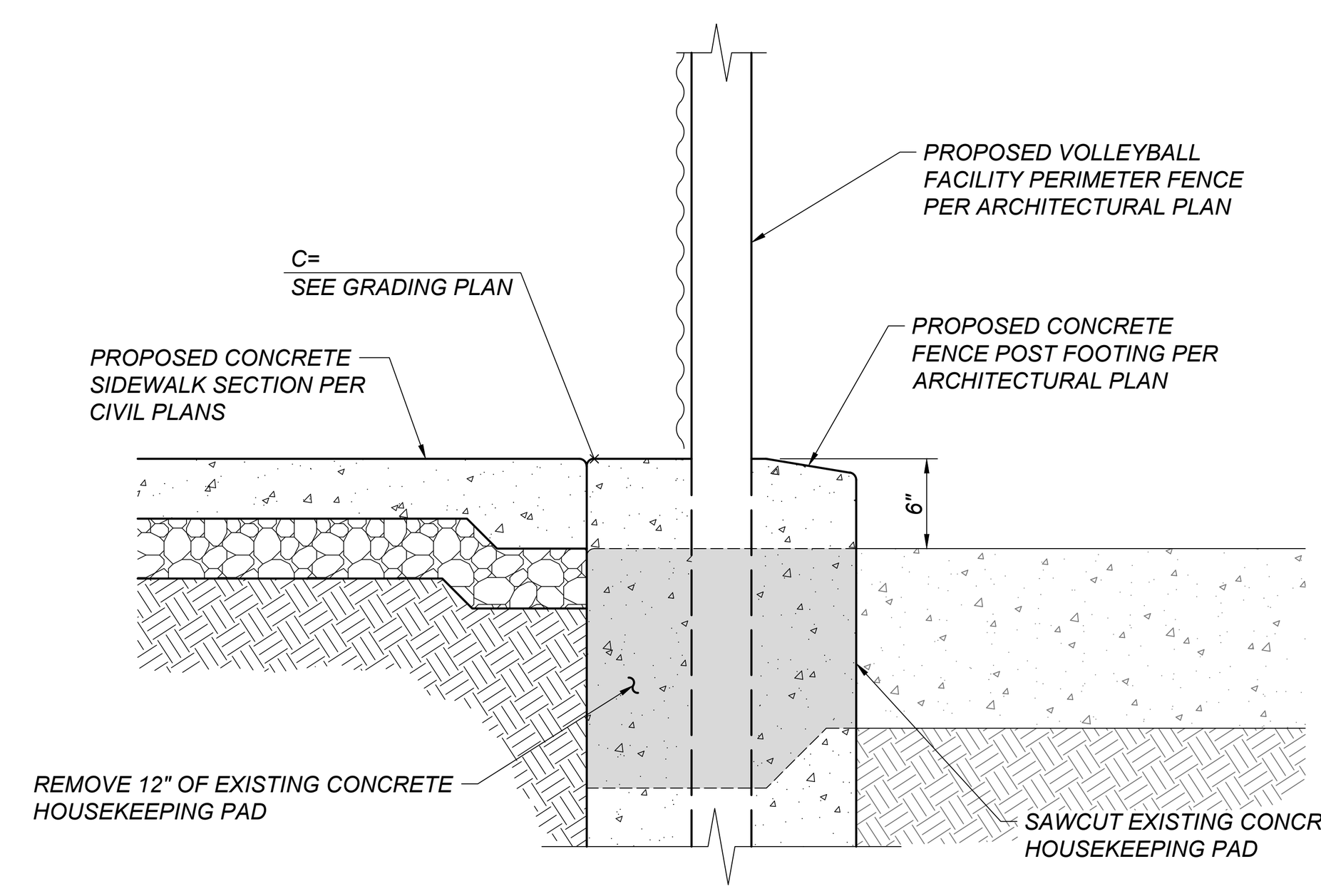
DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

FILE LOCATION: P:\224-0178\Site\ProductionDrawings\224178hzc01.dwg
PLOT BY: JCIESLA
DATE PLOTTED: 2/06/2025 4:49:52PM

FILE LOCATION: P:\224-0178\Site\ProductionDrawings\224178grd01.dwg
PLOT BY: JCIESLA
DATE PLOTTED: 2/06/2025 4:50:04PM





A / C501 — FENCE CURB TRANSITION TO SUBSTATION YARD
NOT TO SCALE

GRADING AND DRAINAGE LEGEND:

BC	BOTTOM OF CURB
C	CONCRETE
FG	FINISHED GRADE
FL	FLOWLINE
G	GUTTER FLOWLINE
GR	STORM DRAIN GRATE
HDR	CONCRETE HEADER
L	LIP OF GUTTER
MS	MOWSTRIP
ST	SYNTHETIC TURF SURFACE
TC	TOP OF CURB
TR	TOP OF ROCK LAYER UNDER SAND
(344.9)	EXISTING ELEVATION
328.78	NEW FINISHED GRADE
→	DIRECTION OF SURFACE DRAINAGE
G.B.	GRADE BREAK
	LIMITS OF GRADING
●CO	SURFACE CLEANOUT PER DETAIL [D/C702]
6"SD	PVC SDR-35 STORM DRAIN PIPELINE; SIZE AS NOTED ON PLANS. TRENCH AND BACKFILL PER DETAIL [A/C702]
6"SD (dashed)	PERFORATED PVC SDR-35 STORM DRAIN PIPELINE; SIZE AS NOTED ON PLANS. TRENCH AND BACKFILL PER DETAIL [G/C703]
S=0.0020 →	FLOWLINE SLOPE AND DIRECTION OF FLOW
S=0.0050 →	PIPE SLOPE AND DIRECTION OF FLOW
(1)	CONNECT TO EXISTING STORM DRAIN WITH A WATER-PROOF CONNECTION
(2)	SET TOP OF CLEANOUT AT BOTTOM OF SAND LAYER
(3)	P6 STORM DRAIN INLET PER DETAIL [E/C702]
(4)	DRAIN NEW GUTTER PAN TO EXISTING GUTTER PAN
(5)	CONTRACTOR TO POTHOLE AND VERIFY STORM DRAIN CROSSING AT EXISTING HYDRONICS LINES

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR, SUB-CONTRACTORS, AND OWNER ARE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL, IMPLEMENTATION OF BMPS, AND CONSEQUENCES OF ANY AND ALL VIOLATIONS
2. ALL MATERIALS FOR THE PROJECT, INCLUDING THE NATIVE SOIL (SEDIMENT) ARE CONSIDERED POLLUTANTS. THE POLLUTANTS SHALL NOT LEAVE THE SITE VIA DRAINAGE, WHEEL TRACKING AND/OR BY WIND. ALL MATERIALS INCLUDING WASTE ARE TO LEAVE THE SITE IN ADEQUATELY SECURED CONTAINERS.
3. ALL WASTE AND STORAGE CONTAINERS SHALL BE KEPT COVERED AT ALL TIMES TO PREVENT LEACHING OF THE WASTE & MATERIALS FROM ESCAPING THEIR CONTAINER AND ONTO THE SITE. HAZARDOUS WASTE (PAINTS, STAINS, GLUES, ADHESIVES, ETC) SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT FOR LIQUID MATERIALS IN CASE OF ACCIDENTAL LEAKAGE/SPILLAGE.
4. THE CONTRACTOR SHALL MAINTAIN BOTH SEDIMENT AND EROSION CONTROL BMP'S THROUGHOUT THE LIFE OF THE PROJECT. PERIMETER BMP'S MAY INCLUDE SILT FENCE, SANDBAGS, FIBER ROLLS, BERMS, SWALES ETC.
5. STREET SURFACES SHALL BE SWEPT BY THE CONTRACTOR PER CASQA SE-7. VISIBLE SEDIMENT TRACKING SHALL BE SWEPT OR VACUUMED ON A DAILY BASIS.
6. DUST CONTROL PRACTICES SHALL CONFORM WITH THE SOLANO COUNTY AND CASQA WE-1 REQUIREMENTS.
7. CONTRACTOR SHALL FOLLOW ALL EROSION AND SEDIMENT CONTROL PRACTICES REQUIRED BY THE SOLANO COMMUNITY COLLEGE DISTRICT

SPECIFICATIONS

CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS BOOK AND THE SOLANO COMMUNITY COLLEGE STANDARD SPECIFICATIONS AND DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE SPECIFICATIONS BOOK AND THE SCC STANDARD SPECIFICATIONS AND DRAWINGS, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ATTENTION OF THE DESIGN TEAM.

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
2. CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:
   a) ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%
   b) ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%
   c) RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%
   d) ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH
   e) ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
   f) LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
   g) GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%
3. CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
4. GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.
5. DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.
6. ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
7. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
8. AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.
9. ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [B/C702]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS AND BOXES WITHIN AREAS SUBJECT TO VEHICULAR TRAFFIC.
10. MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS

SITE BENCHMARK:

CHISELED "X" ON TOP OF CURB APPROXIMATELY 55' NORTH OF RESTROOM BUILDING AND APPROXIMATELY 12' EAST OF RAMP.

ELEV.= 47.37 NAVD88 DATUM

BID ALTERNATE SCHEDULE:

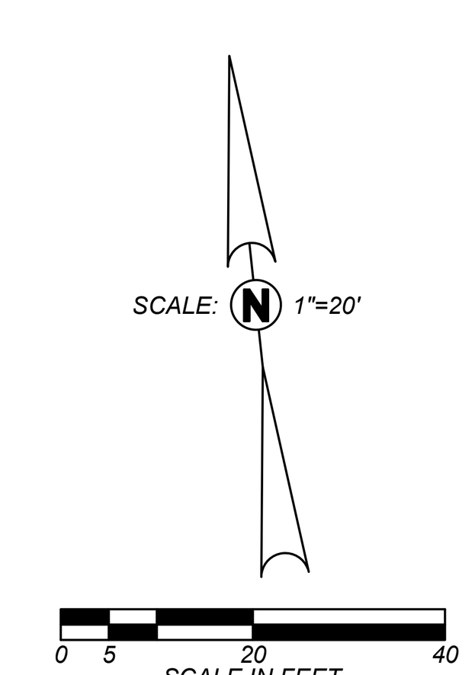
1. PRE-CHECK SHADE STRUCTURE
2. PRE-CHECK DIGITAL SCOREBOARD
3. UNDERGROUND RACEWAYS FOR FUTURE SITE LIGHTING

FLOOD HAZARD ZONE INFORMATION:

1.	FLOOD ZONE DESIGNATION :	ZONE, X, AREA OF MINIMAL FLOOD HAZARD
2.	FIRM PANEL DESIGNATION :	MAP # 06095C0451E
3.	FIRM EFFECTIVE DATE:	MAY 4, 2009
4.	BASE FLOOD ELEVATION:	N/A

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

NPDES NOI DATE:	N/A
WDID #:	N/A
PROJECT SIZE:	35,900 SF (0.82 ACRES)



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DATE: 06/03/2025

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ELECTRICAL ENGINEER
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3533 YORK LANE
SAN RAMON, CA 94582
TE (913)961-1658

CONSULTANT STAMP
REGISTERED PROFESSIONAL ENGINEER — ZACHARY D. HOCKETT — No. 87,218 — CIVIL — STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

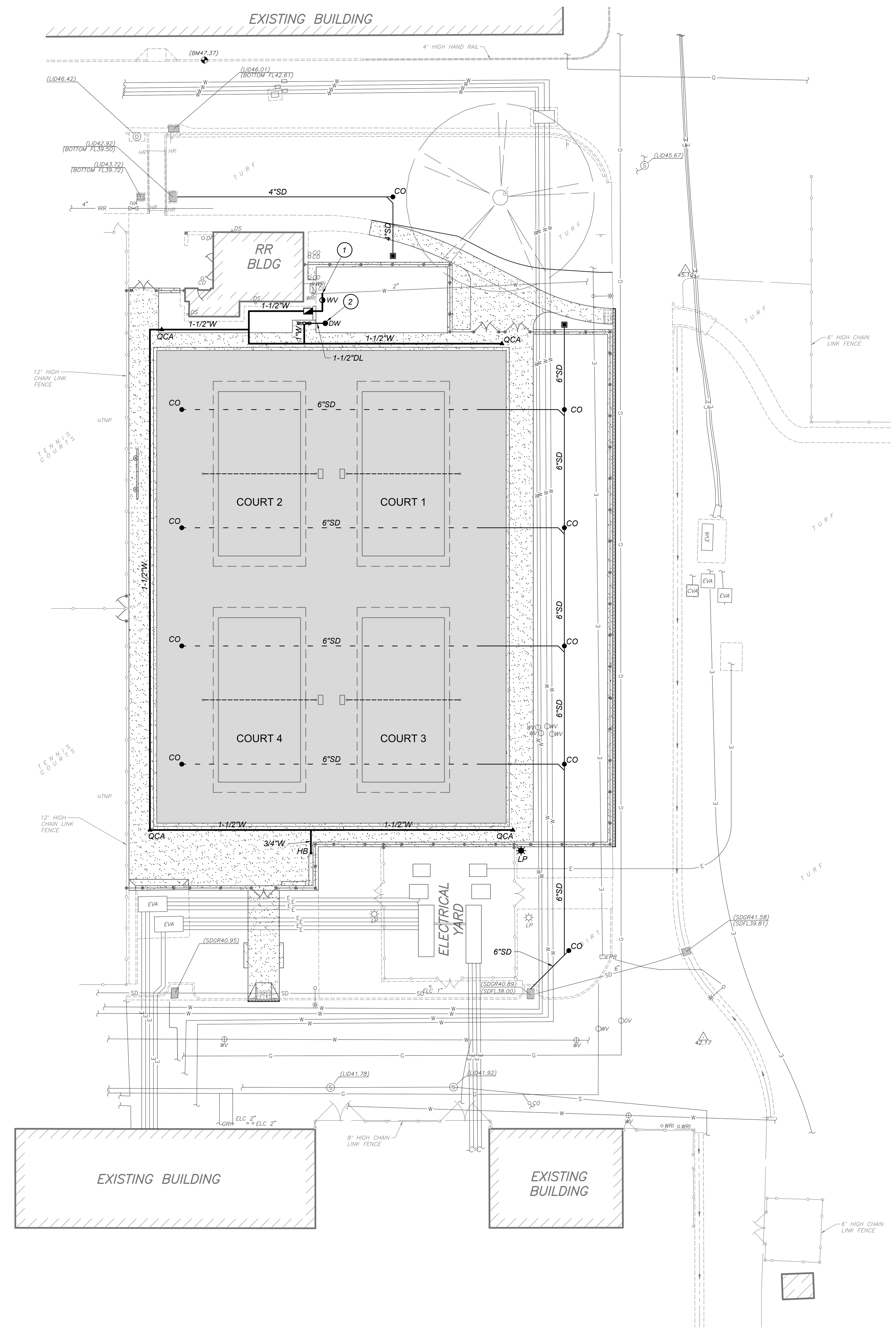
SHEET TITLE
GRADING PLAN

DRAWN BY: JC JOB NUMBER: 24056

SHEET NO.
C501

DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS



UTILITY LEGEND:

Symbol	Description
A / C701	DETAIL DESIGNATION DETAIL REFERENCE SHEET LOCATION
[A/C701]	[DETAIL DESIGNATION / SHEET LOCATION]
W	WATER MAIN, SIZE AS NOTED ON PLANS, MIN. 30" COVER. PIPE BEDDING AND BACKFILL PER DETAIL [A/C702]
1-1/2"DL	PVC WATER FOUNTAIN WASTE PIPELINE; SIZE AS NOTED ON PLANS. TRENCH AND BACKFILL PER DETAIL [A/C702]
SD	STORM DRAIN PIPE, SEE GRADING PLAN
DL	DRAIN LINE, SIZE AS NOTED ON THE PLAN
●CO	STORM DRAIN CLEANOUT, SEE GRADING PLAN
●DW	DRYWELL PER DETAIL [G/C702]
	DRINKING FOUNTAIN PER DETAIL [F/C702]
▲QC	QUICK COUPLER PER DETAIL [I/L102]
◑WV	WATER VALVE PER [F/C702]
•HB	HOSE BIBB PER DETAIL [H/C702]
	REDUCED PRESSURE ZONE ASSEMBLY PER DETAIL [I/C702]
S=0.0050 →	PIPE SLOPE AND DIRECTION OF FLOW
(1)	CONNECT TO EXISTING WATER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
(2)	LOCATION OF DRYWELL IS APPROXIMATE AND ASSUMED TO BE CLEAR OF MAJOR TREE ROOTS AND UNDERGROUND OBSTRUCTIONS. CONTRACTOR TO FIELD-FIT THE DRYWELL AS REQUIRED TO AVOID ANY SUCH OBSTRUCTIONS

GENERAL SITE UTILITY NOTES:

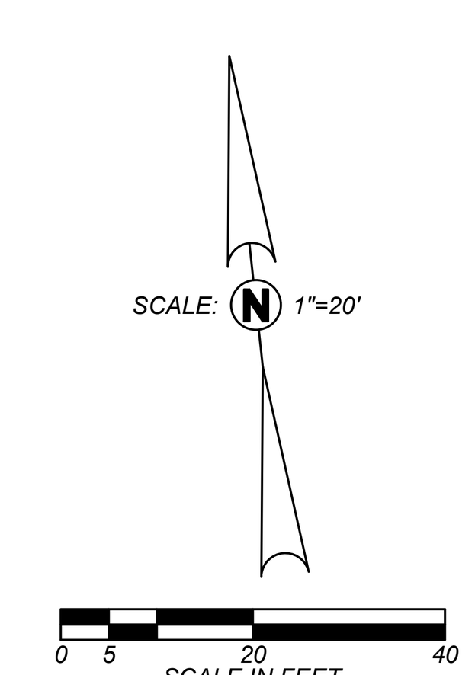
1. AS FIRST ORDER OF WORK, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF LOCATIONS, SIZE AND DEPTH.
2. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, SIZE, DEPTH, AND TYPE OF ALL EXISTING UTILITIES AND INTERFERENCES SITUATED ALONG THE ROUTE OF THE PROPOSED CONSTRUCTION PRIOR TO COMMENCEMENT OF EXCAVATION, FABRICATION, AND INSTALLATION. THE CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS IN SUCH A MANNER AS WILL PROTECT ALL EXISTING UNDERGROUND UTILITIES AND, IN THE EVENT OF ANY CONFLICTS, SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING.
3. SEE IRRIGATION PLANS FOR PROPOSED IRRIGATION PIPE ALIGNMENT.
4. COORDINATE EXACT POINTS OF CONNECTION TO BUILDING PLUMBING AND NOTIFY THE ENGINEER OF ANY CONFLICT SO THAT ADJUSTMENTS CAN BE MADE IF NEEDED.
5. SAWCUT EXISTING CONCRETE IMPROVEMENTS AS NECESSARY TO INSTALL NEW WATER OR SEWER IMPROVEMENTS. CONSTRUCT NEW CONCRETE IMPROVEMENTS TO MATCH ADJACENT CONCRETE IMPROVEMENTS AND JOIN TOGETHER WITH DOWEL BARS PER DETAIL [C/C701]
6. INSTALLATION, TYPE, AND MANUFACTURER'S MODELS OF DOMESTIC WATER METERS, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCES OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
7. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, FIXTURES, EQUIPMENT, SUPPORTS, ETC., SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER OR WITH STRUCTURAL, ELECTRICAL, PLUMBING AND MECHANICAL, ARCHITECTURAL OR ANY OTHER ELEMENTS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
8. ANY INSPECTION TO BE MADE BY THE AUTHORITY HAVING JURISDICTION SHALL REQUIRE A MINIMUM OF 24 HOUR NOTICE.
9. PURITY TESTS ARE REQUIRED ON ALL WATER SYSTEM INSTALLATIONS. CONTRACTOR TO COORDINATE WITH THE AUTHORITY HAVING JURISDICTION.
10. IF THE TOP OF THE STEM OF ANY WATER GATE VALVE IS DEEPER THAN 4' BELOW FINISHED PAVEMENT GRADE, THE CONTRACTOR SHALL INSTALL A STEM EXTENSION SO THAT THE TOP OF THE STEM, WITH EXTENSION, SHALL BE NO DEEPER THAN 4' NOR SHALLOWER THAN 2' FROM FINISHED GRADE.
11. BACKFILL UTILITY TRENCHES PER DETAIL [A/C702]
12. ADJUST EXISTING UTILITY LIDS TO FINISHED GRADE PER UTILITY COMPANY STANDARDS AND DETAIL [B/C702] AND INSTALL TRAFFIC RATED LIDS WHERE LOCATED IN A TRAFFIC AREA.

BID ALTERNATE SCHEDULE:

1. PRE-CHECK SHADE STRUCTURE
2. PRE-CHECK DIGITAL SCOREBOARD
3. UNDERGROUND RACEWAYS FOR FUTURE SITE LIGHTING

SPECIFICATIONS:

CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS BOOK AND THE SOLANO COMMUNITY COLLEGE STANDARD SPECIFICATIONS AND DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE SPECIFICATIONS BOOK AND THE SCC STANDARD SPECIFICATIONS AND DRAWINGS, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ATTENTION OF THE DESIGN TEAM.



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CONSULTANT STAMP

REVISIONS

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PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
UTILITY PLAN

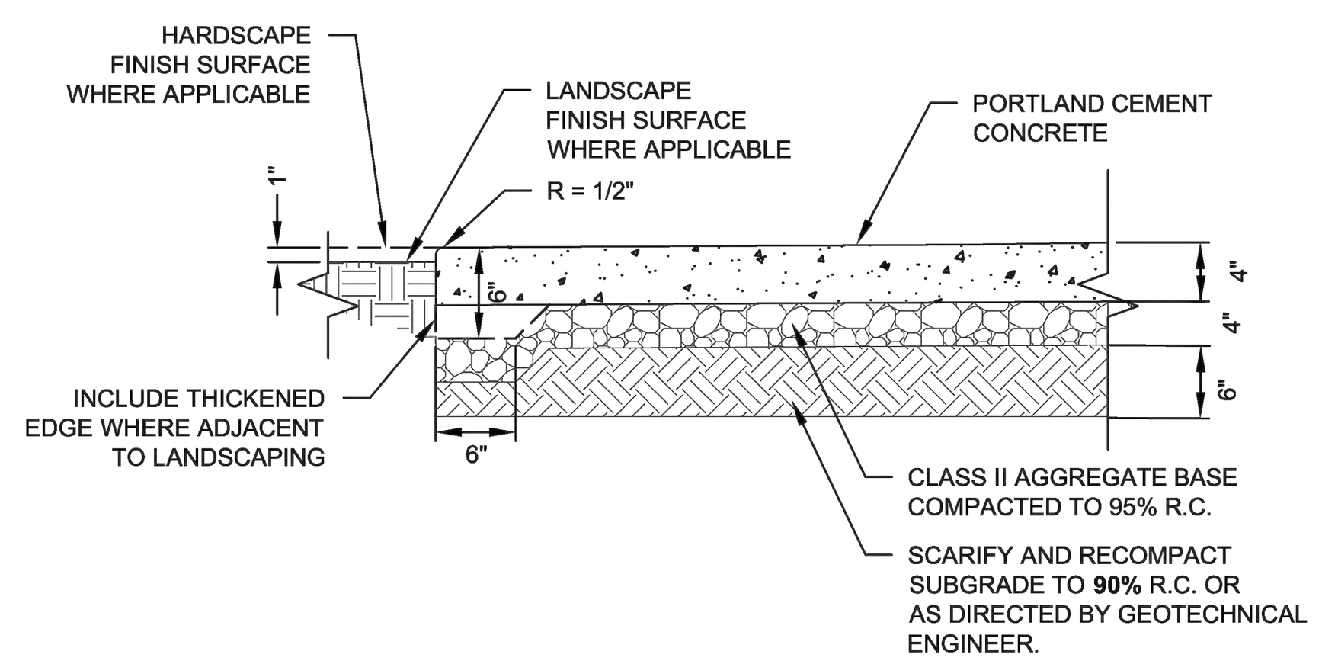
DRAWN BY: TJ JOB NUMBER: 24056

SHEET NO.
C601

DATE: FEBRUARY 10, 2025

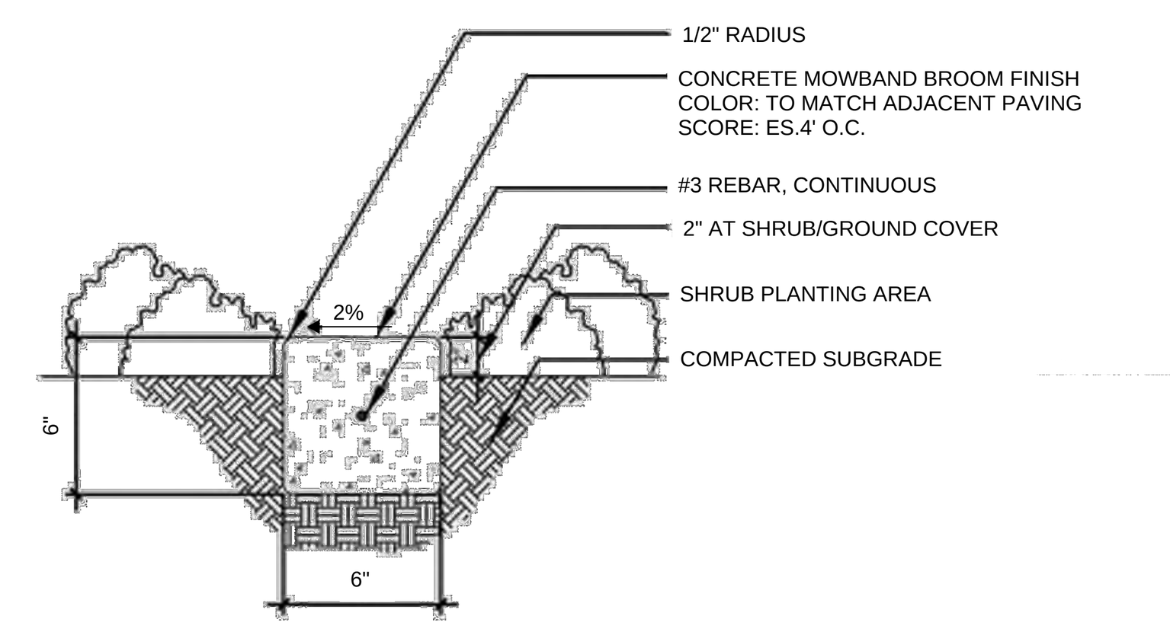
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 2/06/2025 4:50:14PM PLOT BY: JCIESLA FILE LOCATION: P:\224-0178\Site\Production Drawings\224178u01.dwg



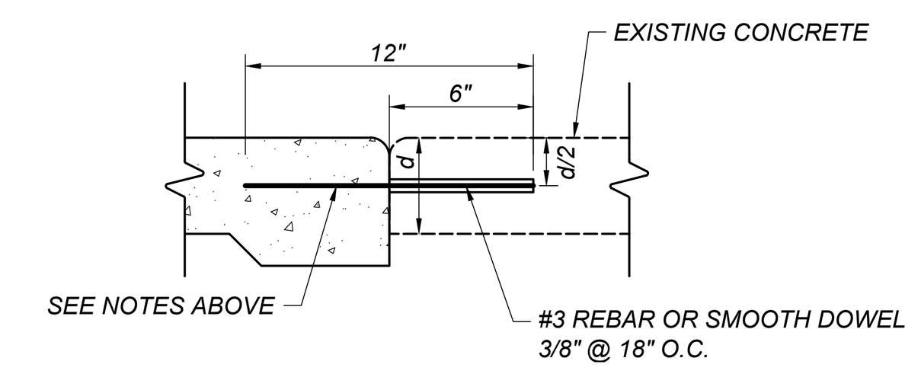
NOTES:
1. ALL TREAD SURFACES SHALL BE SLIP RESISTANT.
2. REFER TO PROJECT CONSTRUCTION DRAWINGS/ SPECIFICATIONS FOR COLOR, PATTERN, TEXTURE , FINISH, AND LOCATION OF JOINTS.

A / C701 — REGULAR-DUTY CONCRETE (SCCD STANDARD DWG. NO. 110)
NOT TO SCALE

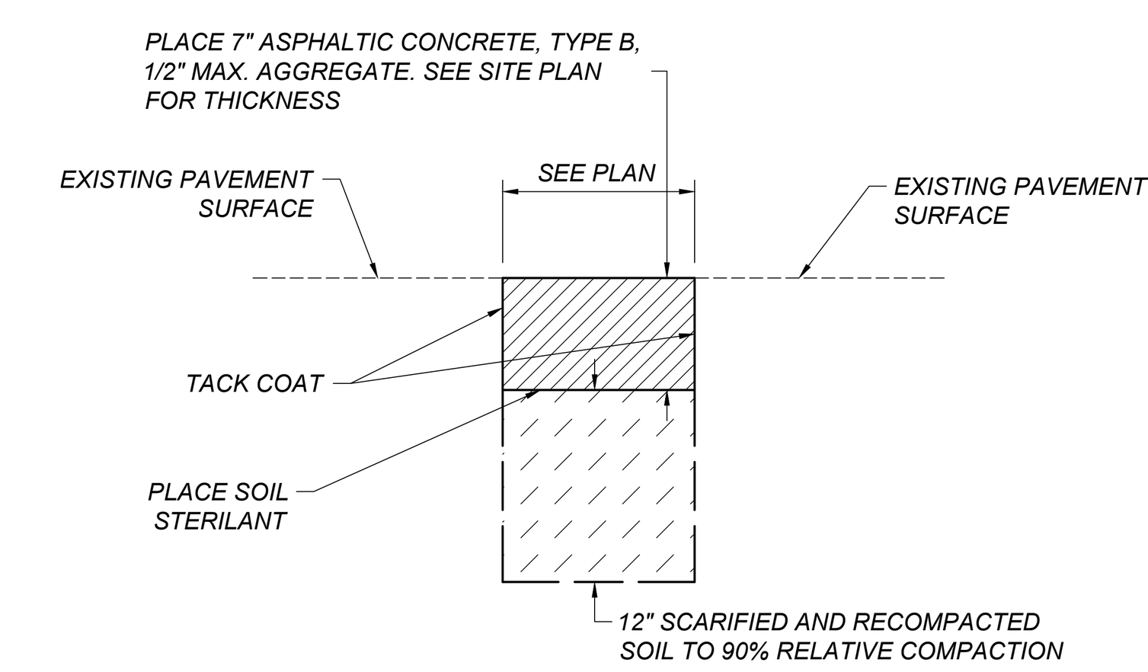


B / C701 — CONCRETE MOWSTRIP (SCCD STANDARD 32 12 00)
NOT TO SCALE

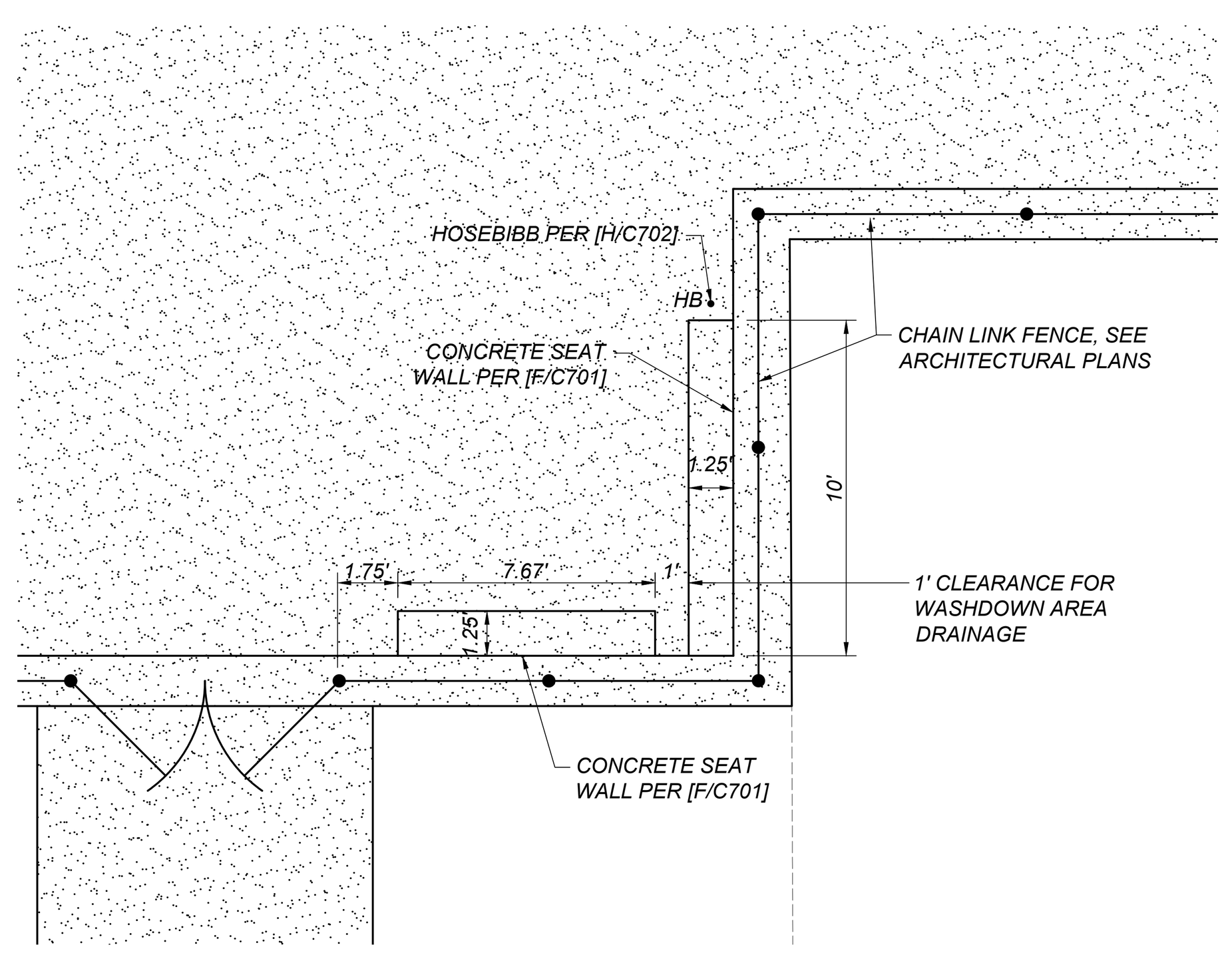
NOTES:
1. DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER.
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.
3. FILL HOLE WITH APPROVED ADHESIVE BEFORE INSERTING DOWEL INTO EXISTING CONCRETE.
4. WHERE SMOOTH DOWEL IS USED, APPLY BOND BREAKER TO SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.
5. WHERE DEFORMED REBAR DOWEL IS USED, PROVIDE APPROVED WRAP ON SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.



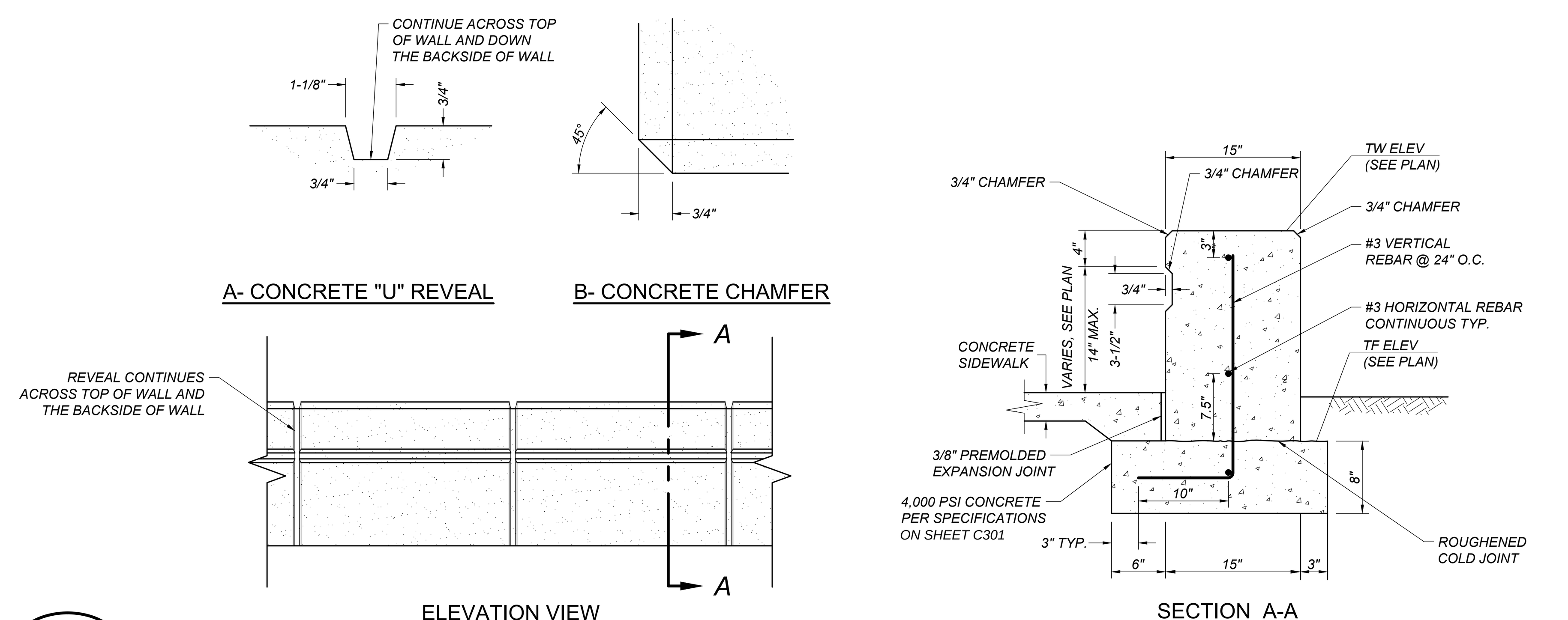
C / C701 — DOWEL BAR
NOT TO SCALE



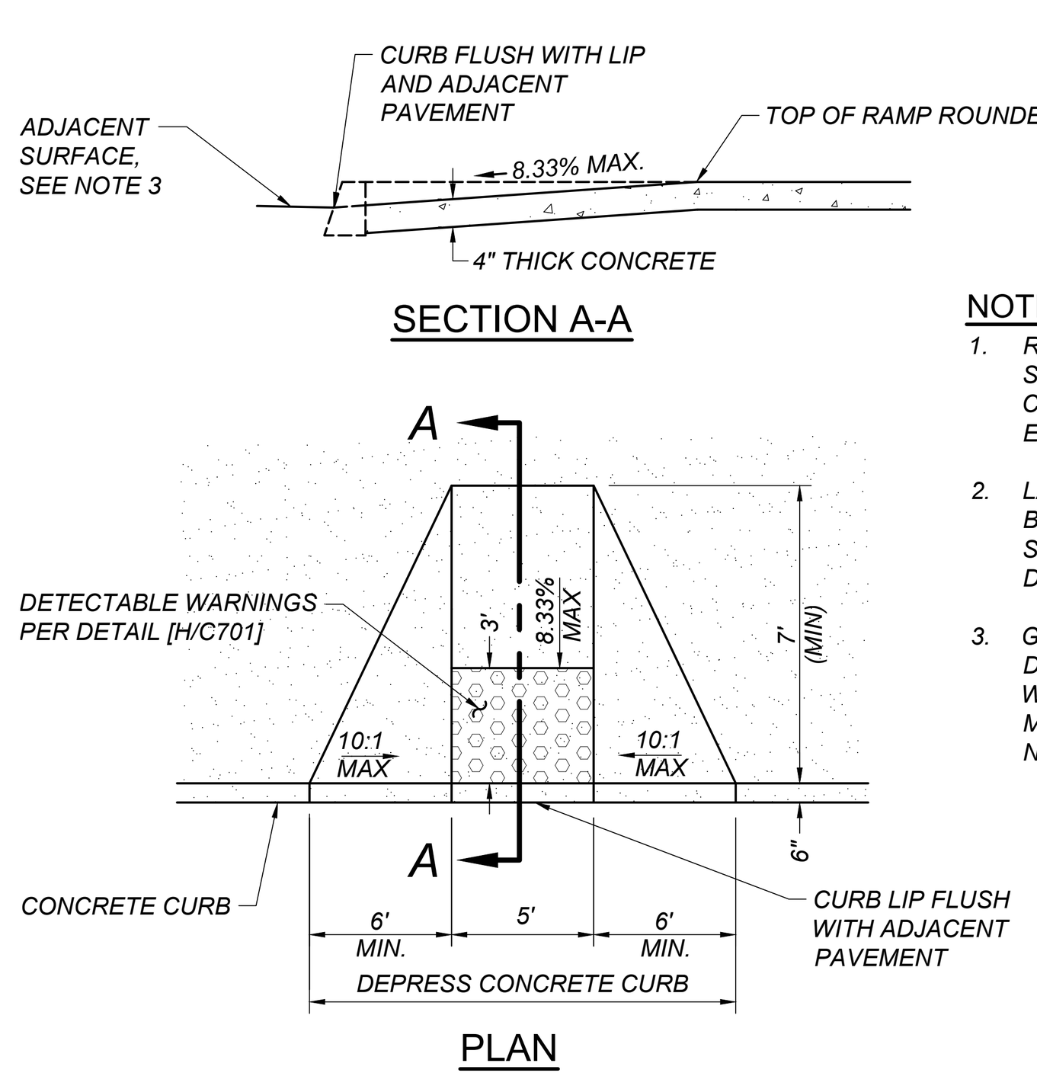
D / C701 — ASPHALT CONCRETE PLUG
NOT TO SCALE



E / C701 — WASHDOWN AREA ENLARGEMENT
NOT TO SCALE



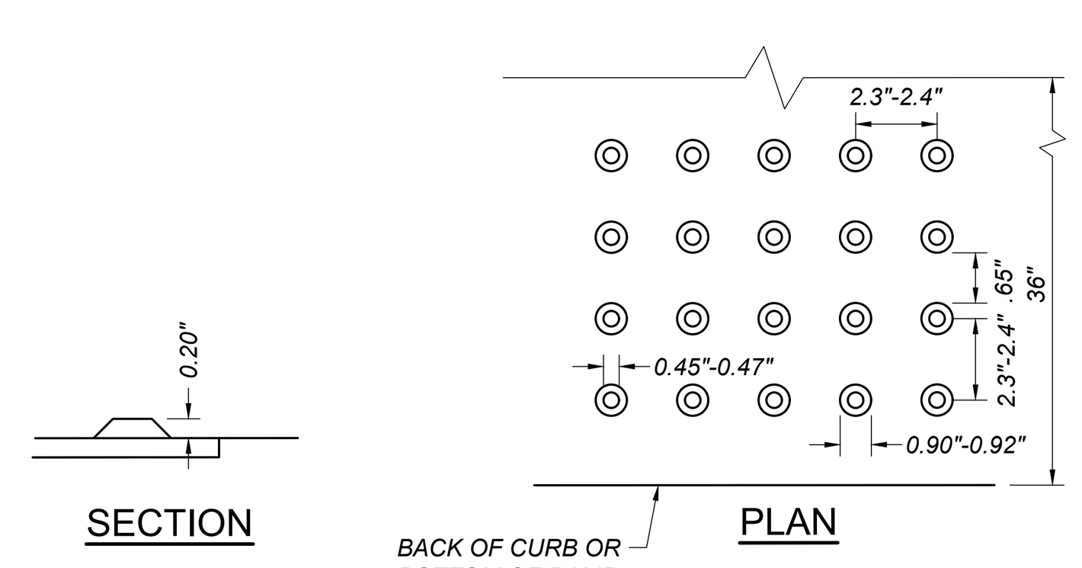
F / C701 — SEAT WALL
NOT TO SCALE



NOTES:
1. RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%, RAMP CROSS SLOPES SHALL NOT EXCEED 2%.
2. LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% IN ANY DIRECTION.
3. GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP MAY HAVE A COUNTER SLOPE NOT EXCEEDING 5%.

G / C701 — CONCRETE CURB RAMP
NOT TO SCALE

NOTES:
1. THE DETECTABLE WARNING SURFACE SHALL BE FEDERAL YELLOW AND APPROXIMATE FS 33538 OF SAE AMSSTD-595A.
2. WHERE DETECTABLE WARNING SURFACE DOES NOT PROVIDE A 70% CONTRAST WITH ADJACENT WALKING SURFACES, A 1-INCH WIDE MINIMUM VISUALLY CONTRASTING SURFACE SHALL SEPARATE THE DETECTABLE WARNING FROM THE ADJACENT SURFACE.
3. THE DOMES SHALL BE MANUFACTURED BY ARMOR TILE INC. OR APPROVED EQUAL.
4. ONLY APPROVED DSA/AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CHAPTER 5, ARTICLES 2, 3 AND 4.



H / C701 — DETECTABLE WARNINGS
NOT TO SCALE

FILE LOCATION: P:\224-0178\Site\Production Drawings\224178dt01.dwg
PLOT BY: TJMFLYNN
DATE PLOTTED: 2/06/2025 4:50:24PM

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CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
DETAILS

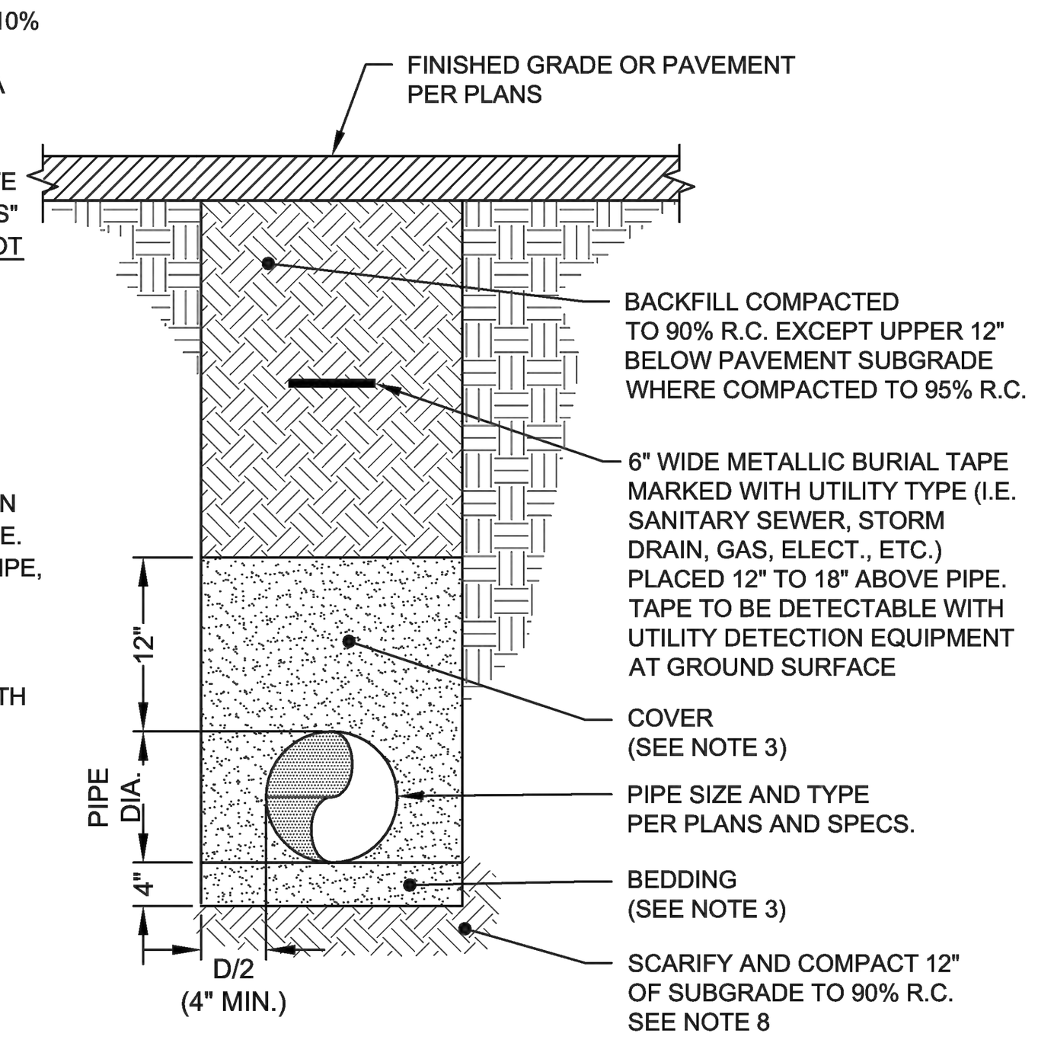
DRAWN BY: TJ JOB NUMBER: 24056

SHEET NO.
C701

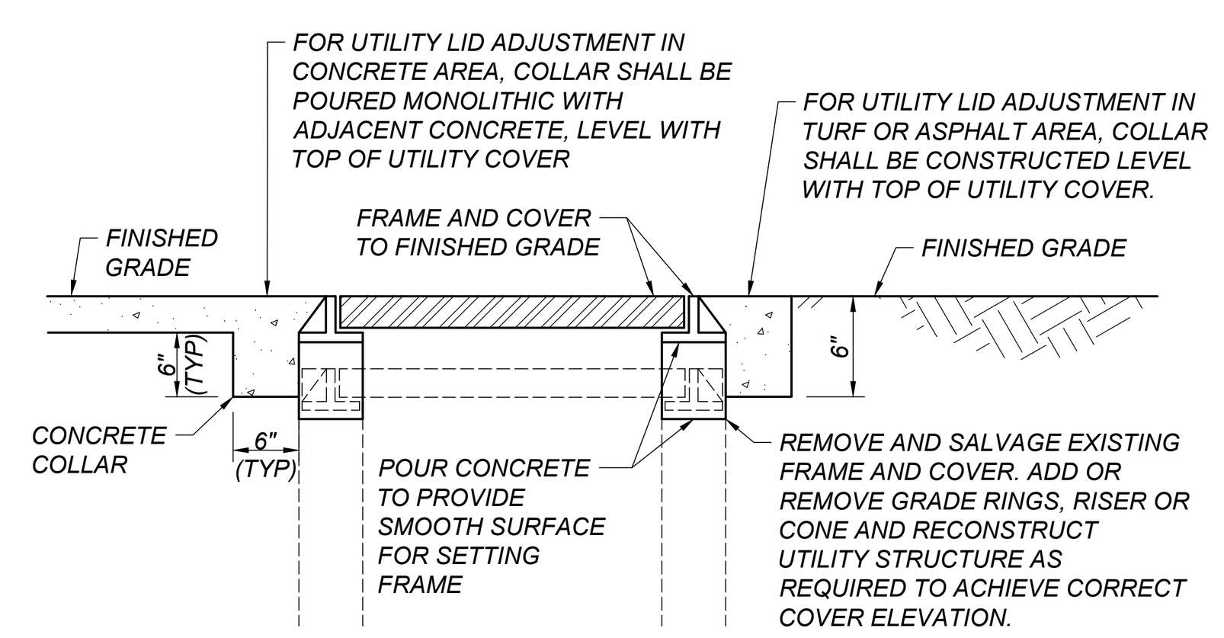
DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

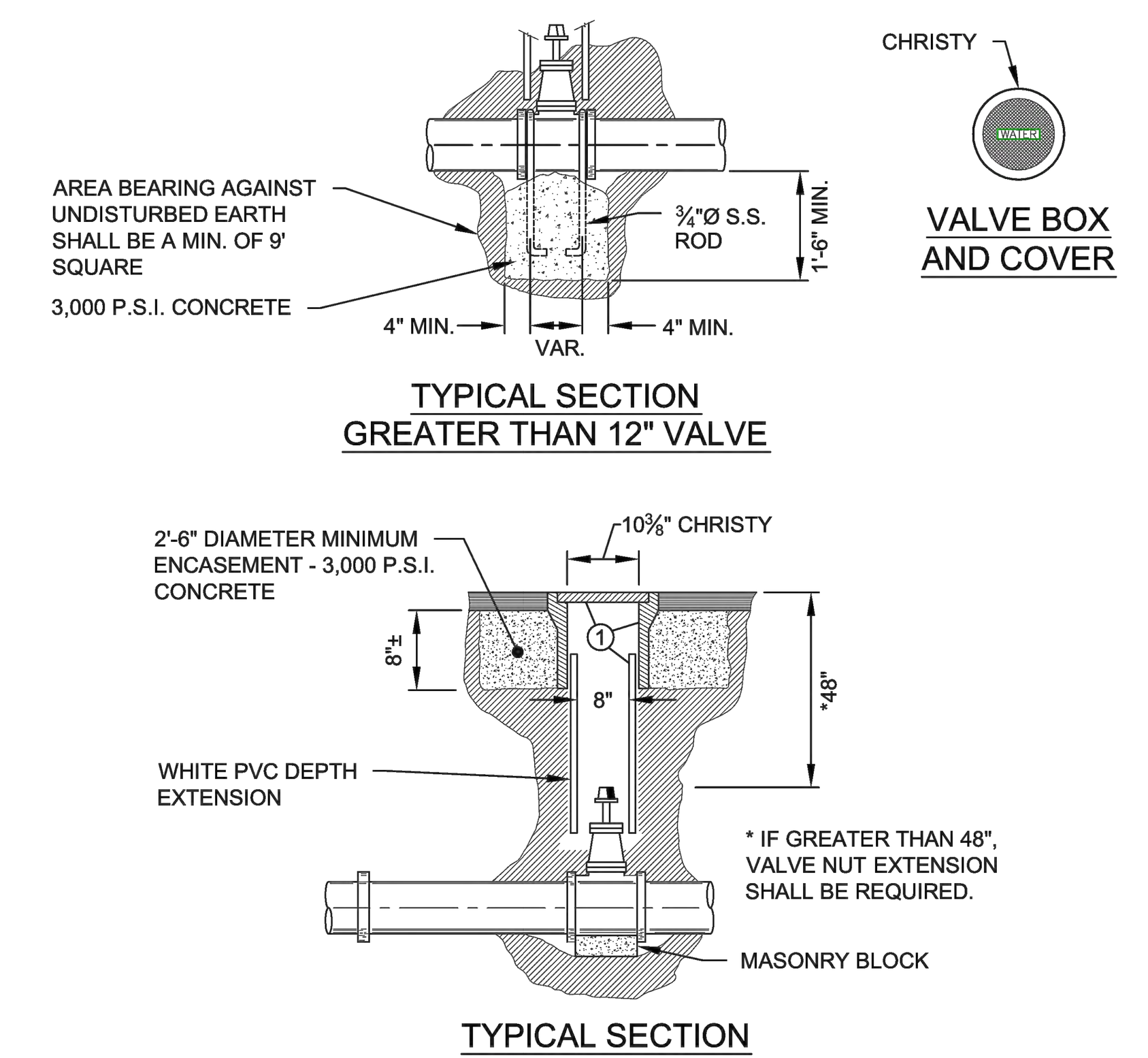
NOTES:
1. UTILITY TRENCH CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
2. EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
3. BEDDING AND COVER: SAND OR FINE GRAVEL WITH LESS THAN 10% FINES.
4. BEDDING SHALL BE PLACED IN A MANNER SUCH AS SLICING, SHOVEL-SPADING, OR SHOVEL RODDING TO ENSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE. JETTING IS NOT PERMITTED
5. SUBGRADE TO BE FREE OF PROTRUDING OBJECTS.
6. BACKFILL MAY BE NATIVE SOIL
7. WHERE LESS THAN 18" BETWEEN BOTTOM OF PAVING SECTION (I.E. BOTTOM OF A.B.) AND TOP OF PIPE, BACKFILL TO BE CONTROLLED DENSITY FILL (CDF)
8. TRENCH SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, WHEN APPLICABLE.



A / C702 TRENCH DETAIL FOR UTILITY LINES (SCCD STANDARD DWG.NO. 200)
NOT TO SCALE

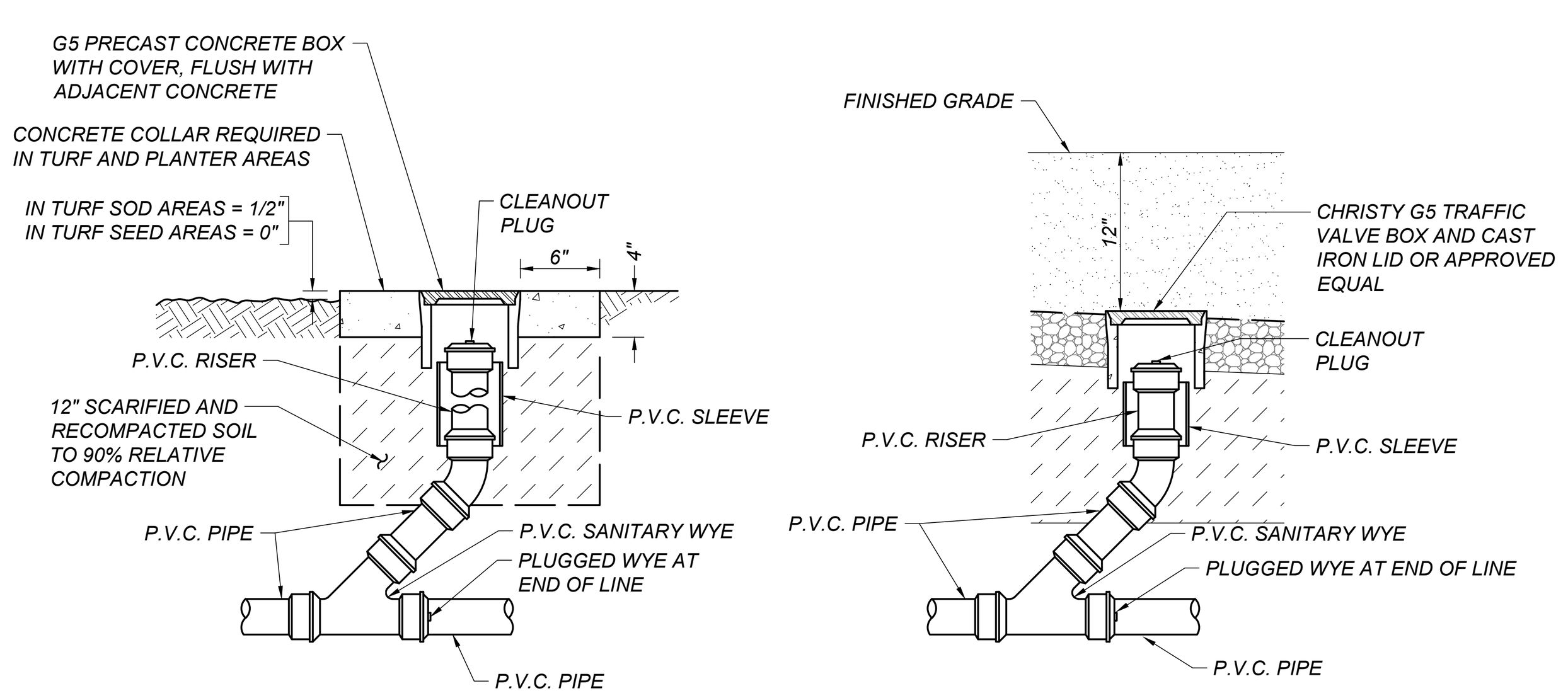


B / C702 ADJUST UTILITY LID
NOT TO SCALE

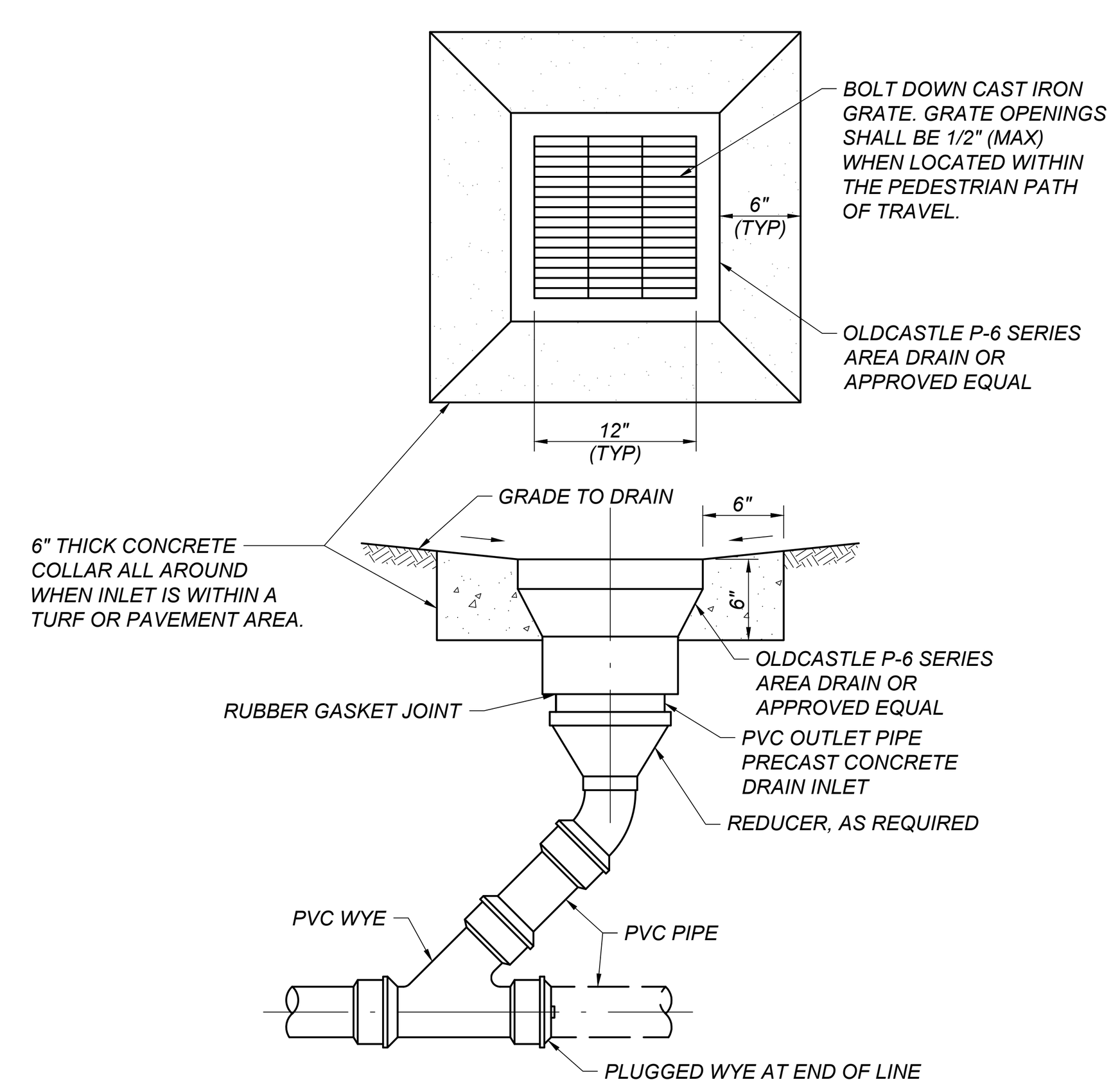


NOTES:
1. VALVE BOX AND COVER SHALL BE CHRISTY CONCRETE PRODUCTS NO. G-5 OR EQUAL, WITH DEPTH EXTENSIONS AS REQUIRED.
2. ALL VALVES SHALL HAVE FLANGED CONNECTIONS AT ALL TEES AND CROSSES.
3. ALL VALVES SHALL BE SEPARATED FROM JOINTS WITH A 3' TO 6' SECTION OF PIPE.
4. VALVE SHALL BE RESILIENT SEAT GATE (12" OR LESS) OR BUTTERFLY (GREATER THAN 12") PER CITY SPECIFICATION.

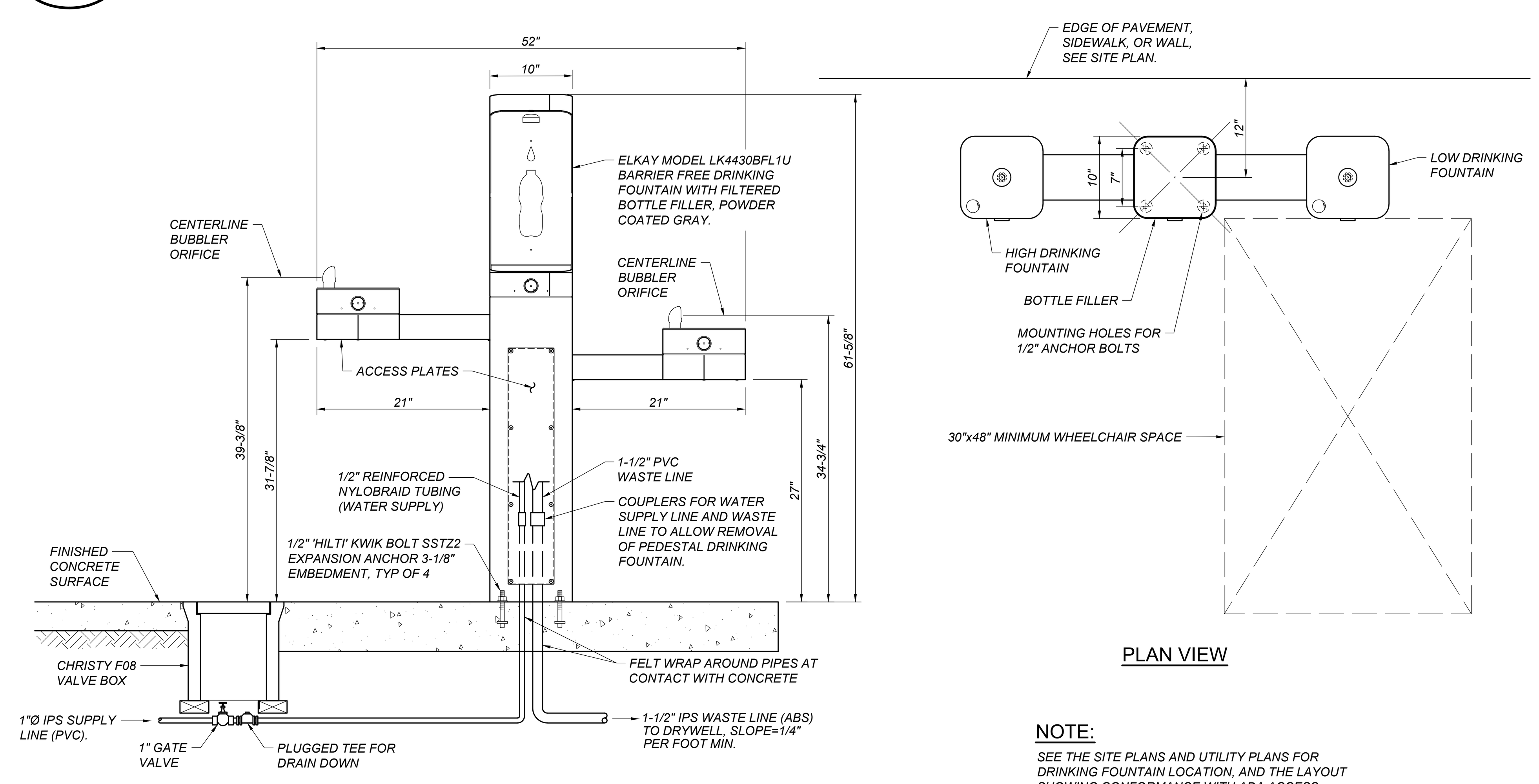
C / C702 GATE VALVE AND LID (SCCD STANDARD DWG. NO. 310)
NOT TO SCALE



D / C702 CLEANOUT
NOT TO SCALE

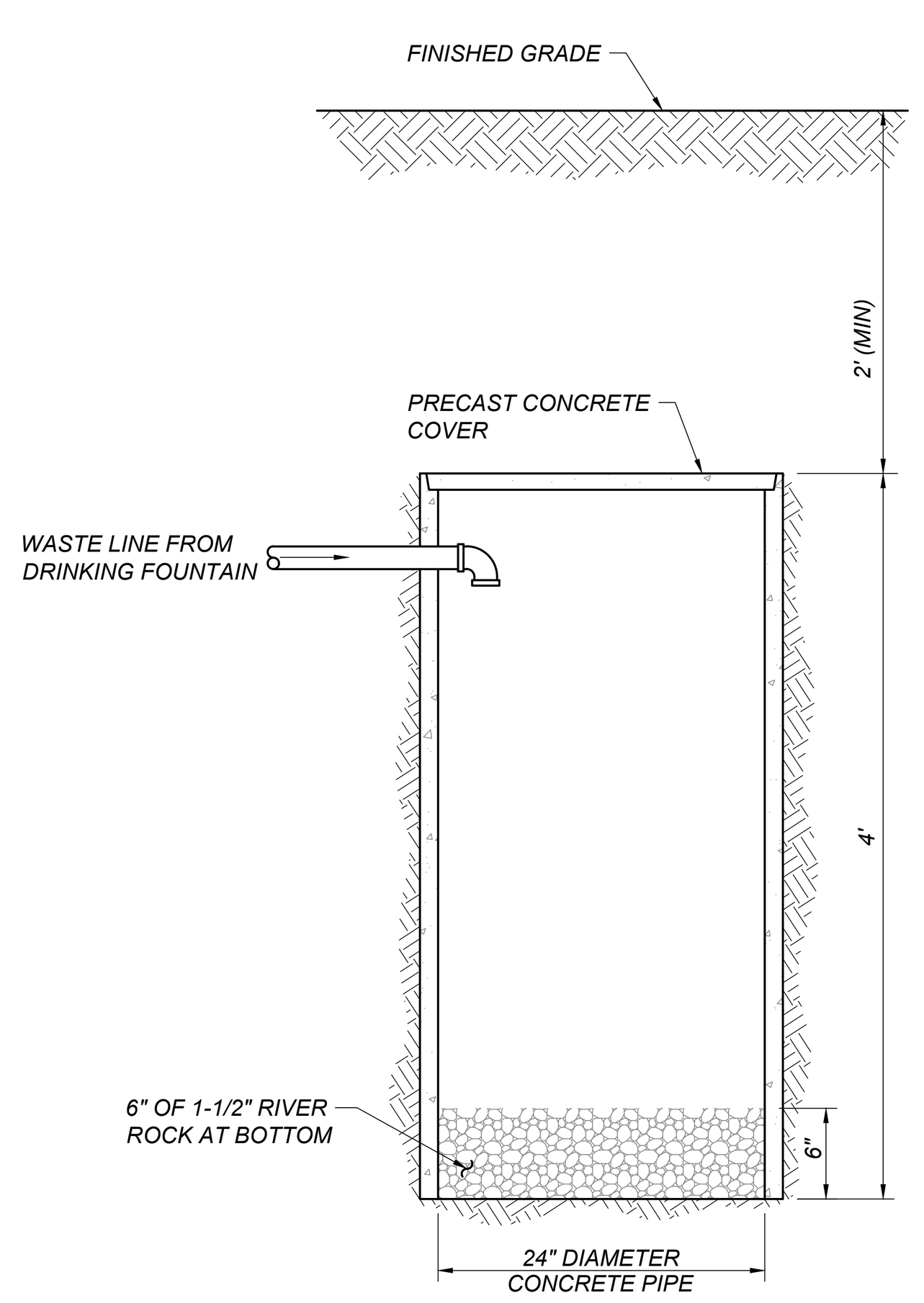


E / C702 P-6 SERIES AREA DRAIN
NOT TO SCALE

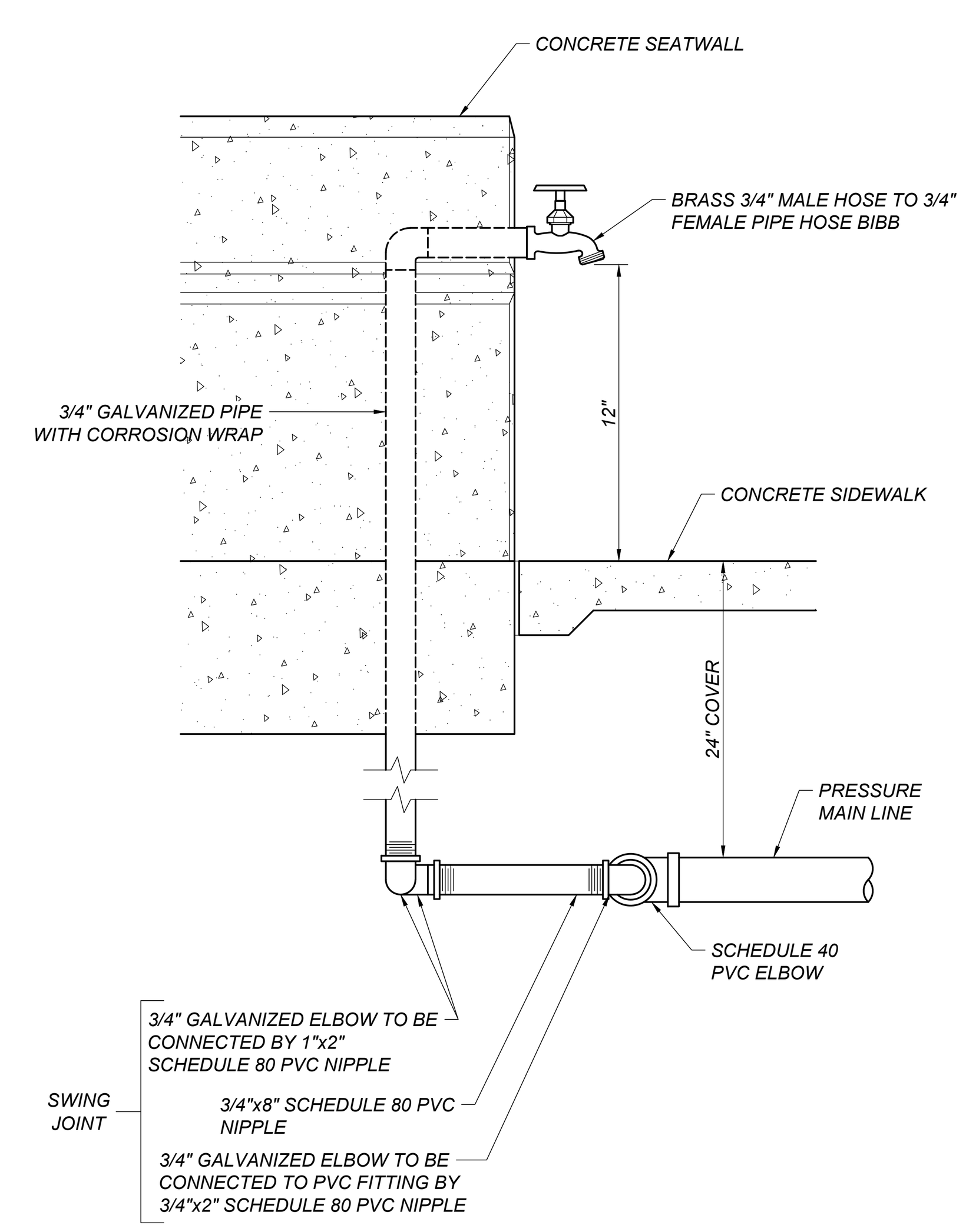


NOTE:
SEE THE SITE PLANS AND UTILITY PLANS FOR DRINKING FOUNTAIN LOCATION, AND THE LAYOUT SHOWING CONFORMANCE WITH ADA ACCESS REQUIREMENTS (30"X48" WHEELCHAIR SPACE).

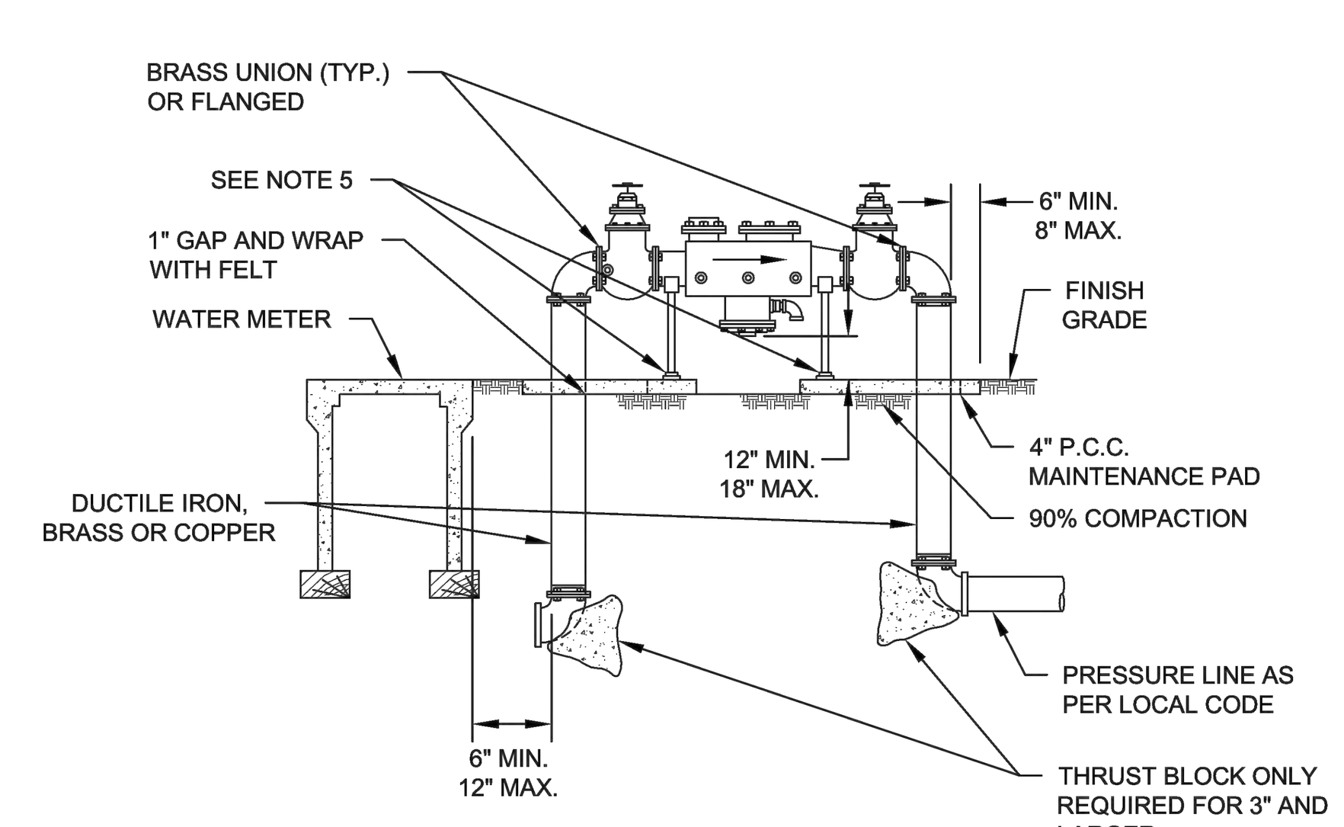
F / C702 DRINKING FOUNTAIN
NOT TO SCALE



G / C702 DRY WELL
NOT TO SCALE



H / C702 HOSE BIBB INSTALLATION
NOT TO SCALE



NOTES:
1. ALL DOUBLE CHECK VALVE ASSEMBLIES AND REDUCED PRESSURE BACKFLOW PREVENTION DEVICES SHALL BE ON THE MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION DEVICES AS PUBLISHED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES. VALVE ASSEMBLY SHALL BE DELIVERED TO THE PROJECT SITE AS A UNIT ASSEMBLED BY THE MANUFACTURER.
2. CITY MAY REQUIRE TWO BACKFLOW PREVENTION DEVICES ON DOMESTIC SERVICE, WITH ONE TO SERVE AS A BYPASS FOR TESTING PURPOSES, IF WATER SERVICE CAN NOT BE SHUT OFF FOR MAINTENANCE OR IF TOXIC CHEMICALS ARE INVOLVED.
3. BACKFLOW PREVENTION DEVICES SHALL BE ONLY REDUCED PRESSURE TYPES FOR ALL LANDSCAPE IRRIGATION APPLICATIONS.
4. COPPER CONNECTIONS SHALL BE COMPRESSION FITTINGS OR SILVER SOLDER (MINIMUM 15% SILVER CONTENT). ALL COPPER SHALL BE RIGID TYPE K.
5. PIPE SUPPORTS SHOULD BE USED IF THE PIPE IS 3" OR LARGER.
6. THE DIAGRAMS DEPICT DOUBLE CHECK/REDUCED PRESSURE ASSEMBLIES LARGER THAN 1 INCH. COMPONENTS SHOWN ARE FOR INFORMATION ONLY.

I / C702 REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY (SCCD STANDARD DWG. NO. 330)
NOT TO SCALE

FILE LOCATION: P:\224-0178\Site\ProductionDrawings\224178dt02.dwg
PLOT BY: JCIESLA
DATE PLOTTED: 2/06/2025 4:50:33PM

AGENCY APPROVAL DSA#

IDENTIFICATION STAMP
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APP: 02-122861 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

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SAN FRANCISCO, CA 94107
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3533 YORK LANE
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TE (913)961-1658

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER — CIVIL — STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

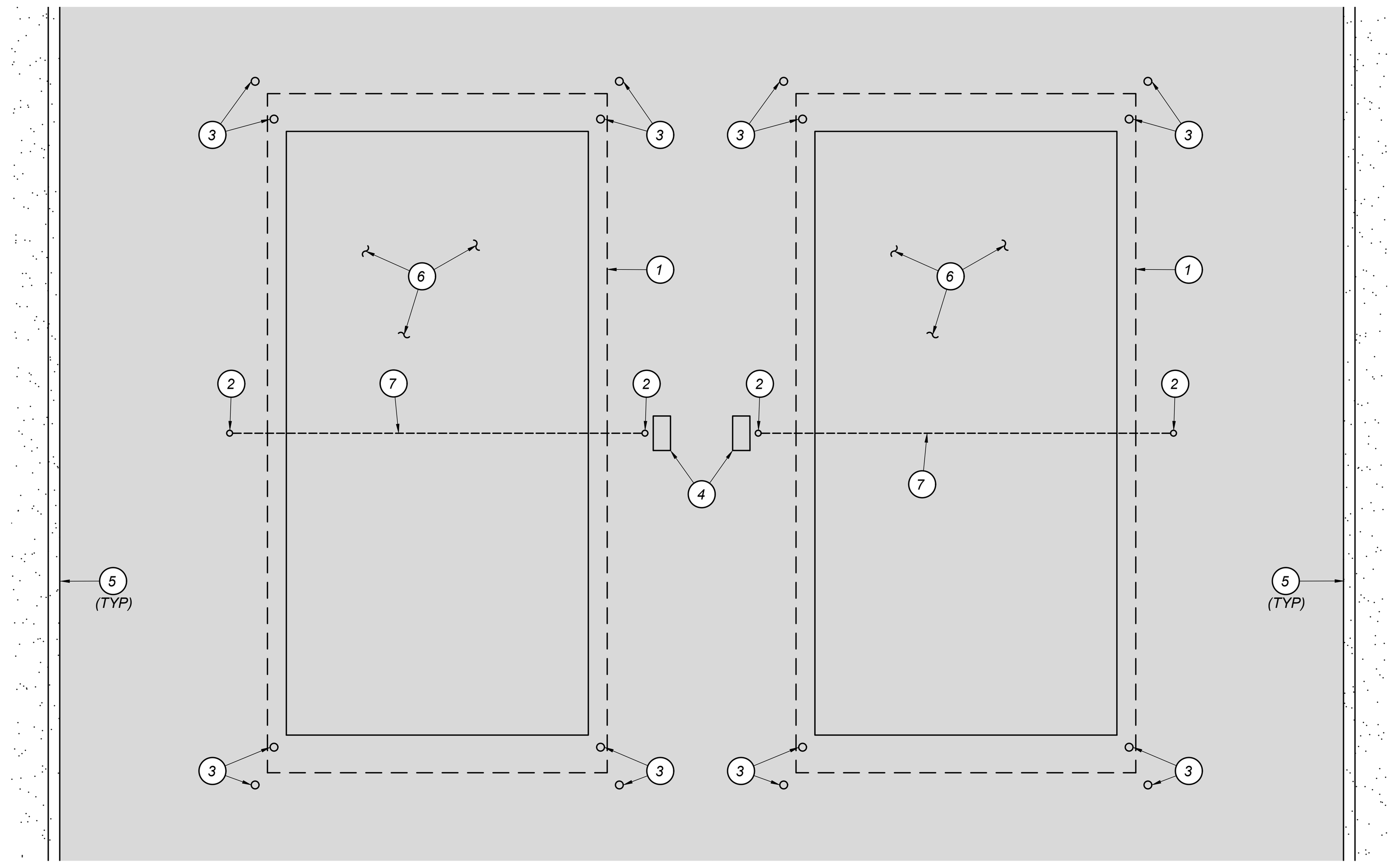
SHEET TITLE
DETAILS

DRAWN BY: TJ JOB NUMBER: 24056

SHEET NO.
C702

DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS



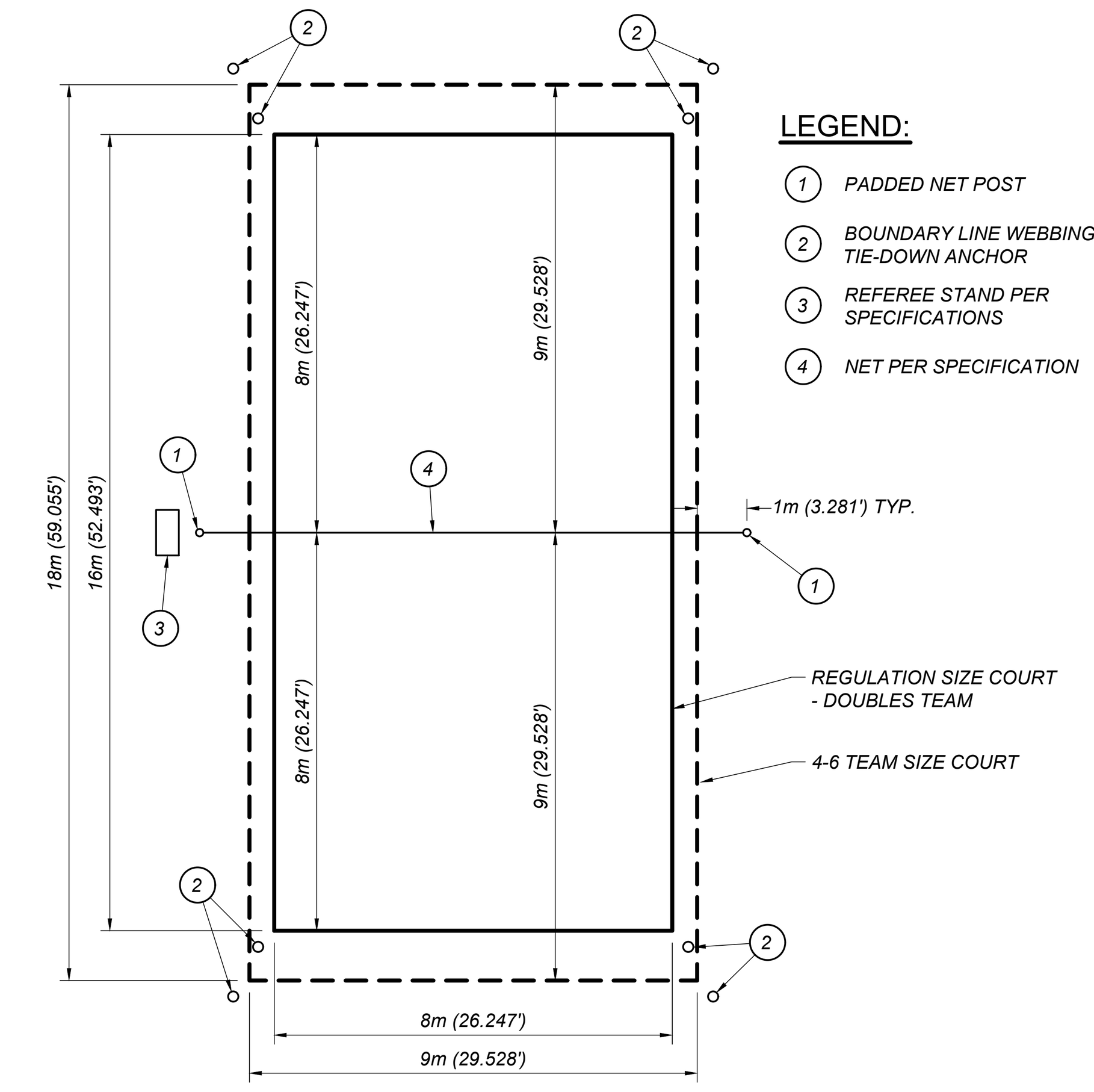
LEGEND:

1. SAND VOLLEYBALL LAYOUT PER [B/C703] AND GRADING PER [F/C703]
2. VOLLEYBALL POST PER [C/C703]
3. BOUNDARY LINE WEBBING TIE-DOWN ANCHOR PER [D/C703]
4. REFEREE STAND AND PADDING PER SPECIFICATION SECTION 116833
5. CONCRETE HEADER PER [E/C703]
6. COURT SAND PER SPECIFICATION SECTION 116833
7. VOLLEY BALL NET

VOLLEYBALL NOTES:

1. SEE ATHLETIC EQUIPMENT SPECIFICATION SECTION 116833 FOR PRODUCT INFORMATION.
2. NON-WOVEN GEOTEXTILE SHALL MATCH MIRAFI 160N, OR ACCEPTED EQUAL.
3. SAND DEPTH SHALL BE A MINIMUM 12" DEPTH IN THE FREE AREA, AND A MINIMUM 18" DEPTH INSIDE COURT BOUNDARY.
4. COLOR SELECTIONS FOR NET AND PADDING SHALL BE SELECTED BY THE OWNER.

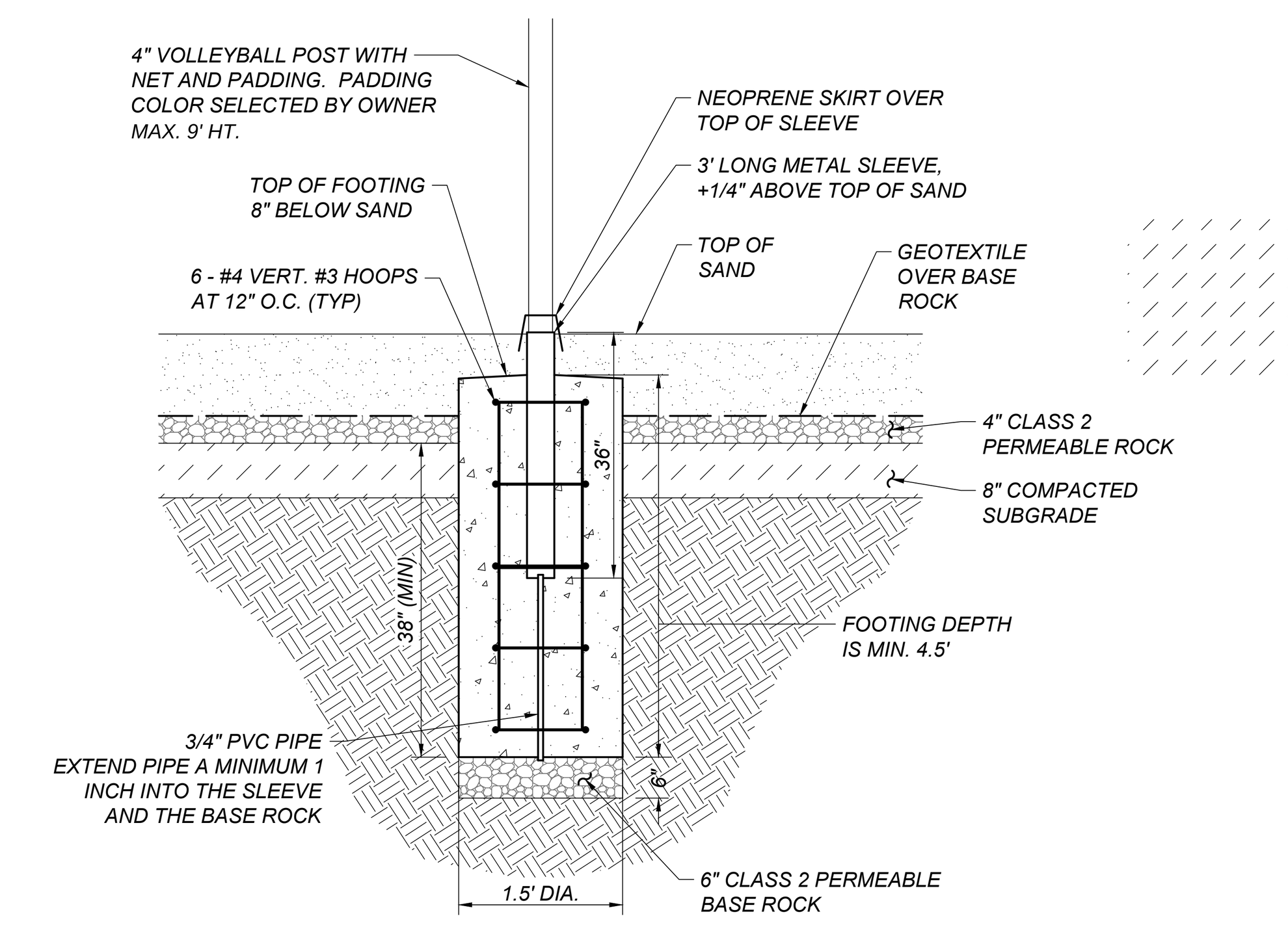
A / C703 — TWO-COURT BEACH VOLLEYBALL PLAN VIEW
NOT TO SCALE



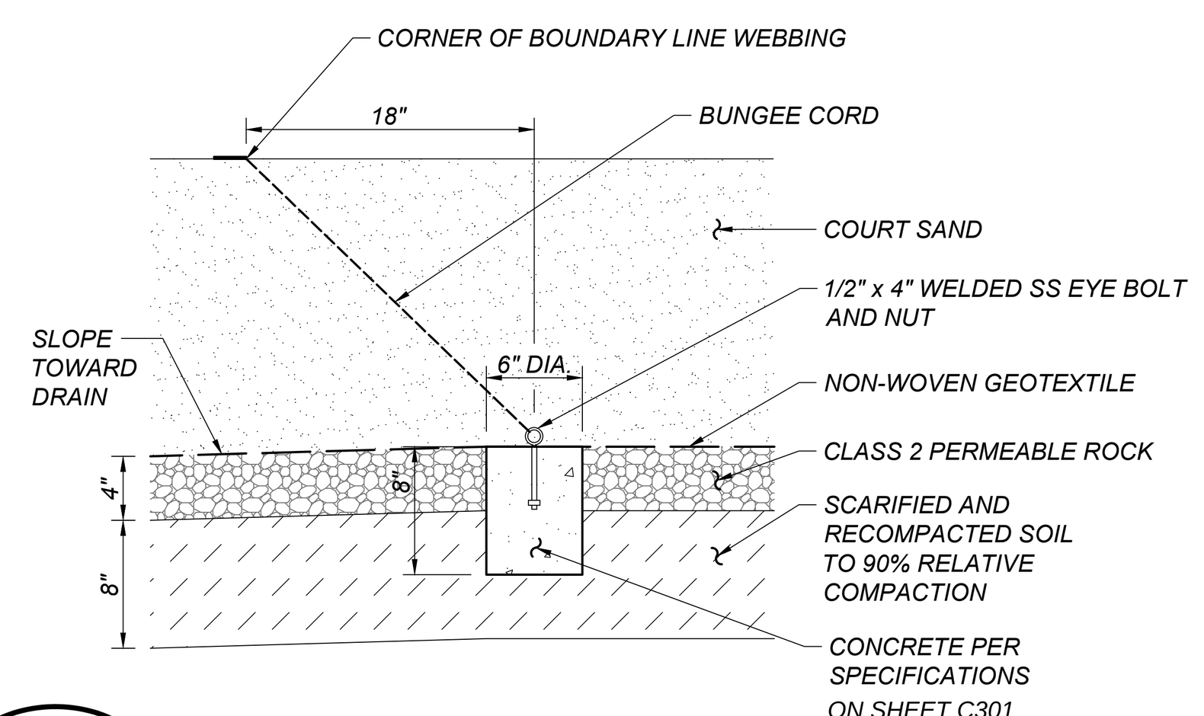
LEGEND:

1. PADDED NET POST
2. BOUNDARY LINE WEBBING TIE-DOWN ANCHOR
3. REFEREE STAND PER SPECIFICATIONS
4. NET PER SPECIFICATION

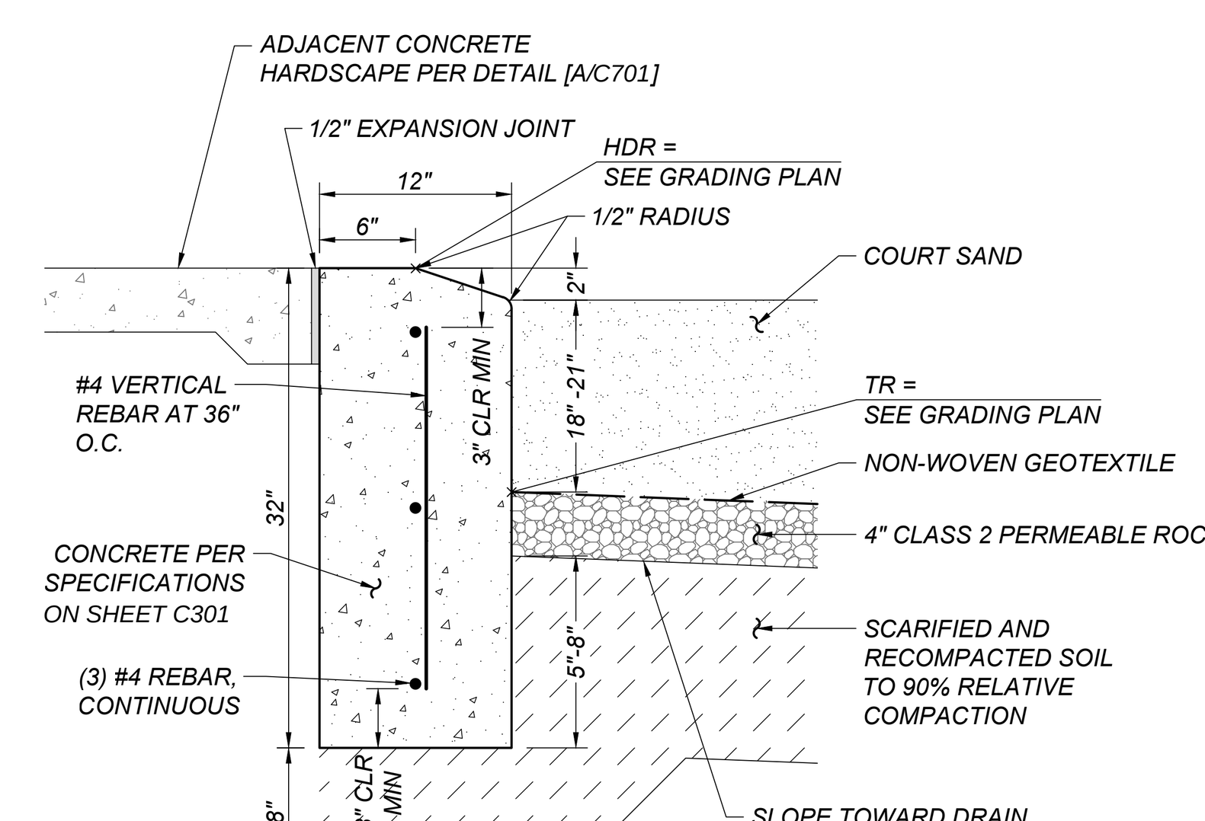
B / C703 — TYPICAL BEACH VOLLEYBALL COURT LAYOUT
NOT TO SCALE



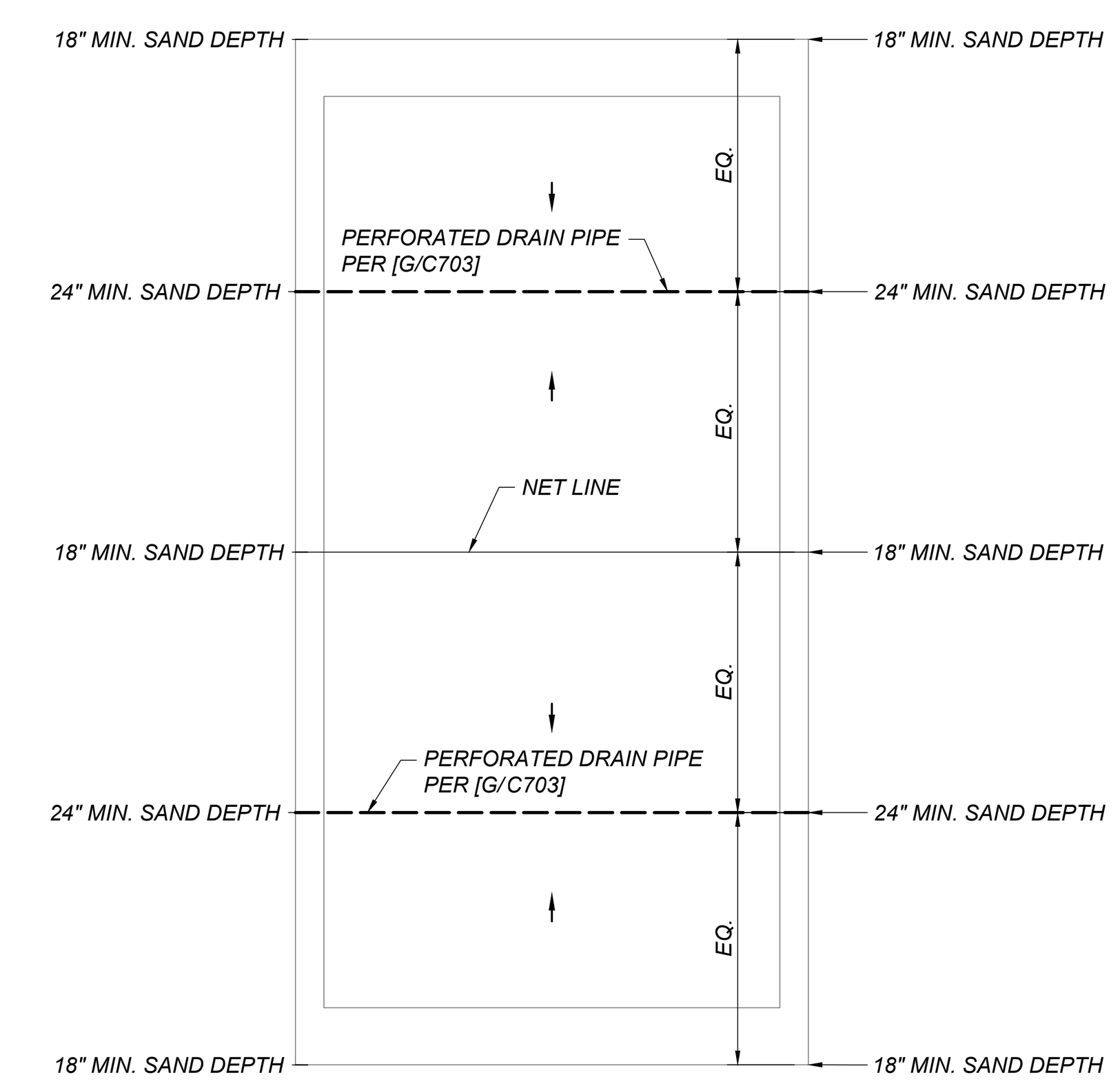
C / C703 — VOLLEYBALL POST
NOT TO SCALE



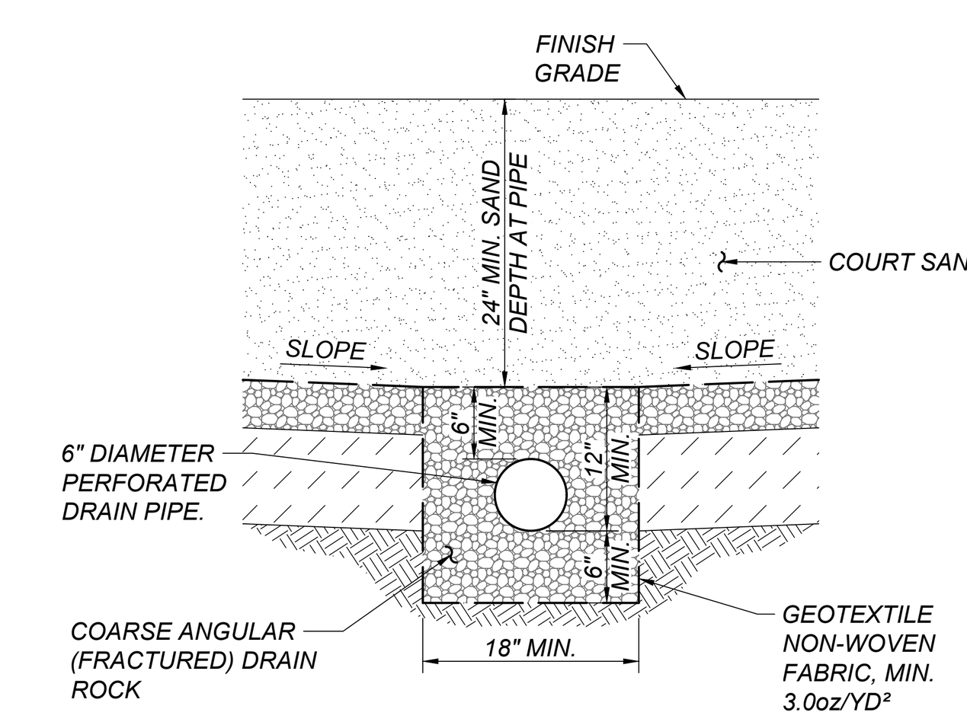
D / C703 — TIE-DOWN ANCHOR BOLT
NOT TO SCALE



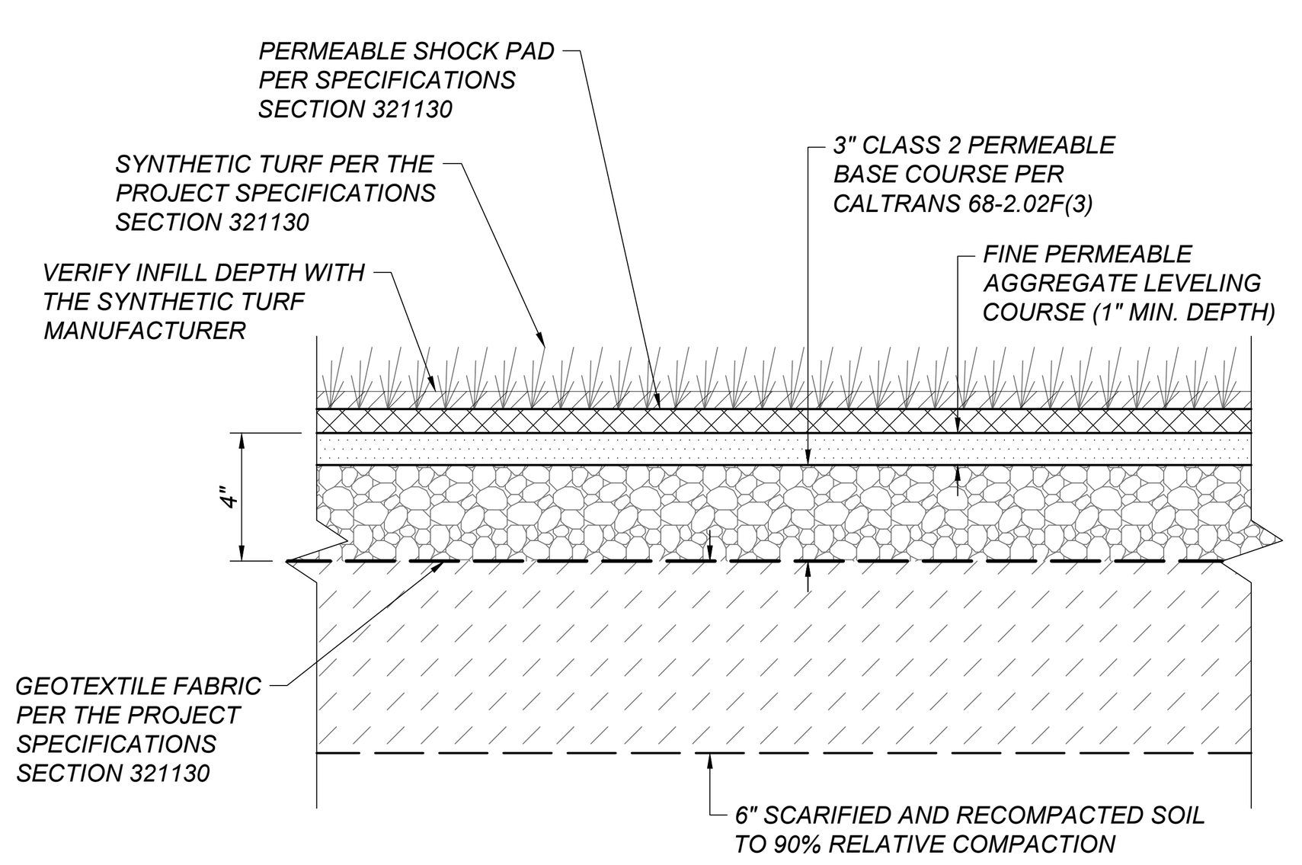
E / C703 — VOLLEYBALL HEADER
NOT TO SCALE



F / C703 — TYPICAL VOLLEYBALL COURT GRADING AND DRAINAGE
NOT TO SCALE



G / C703 — PERFORATED DRAIN INSTALLATION
NOT TO SCALE



H / C703 — SYNTHETIC TURF SECTION
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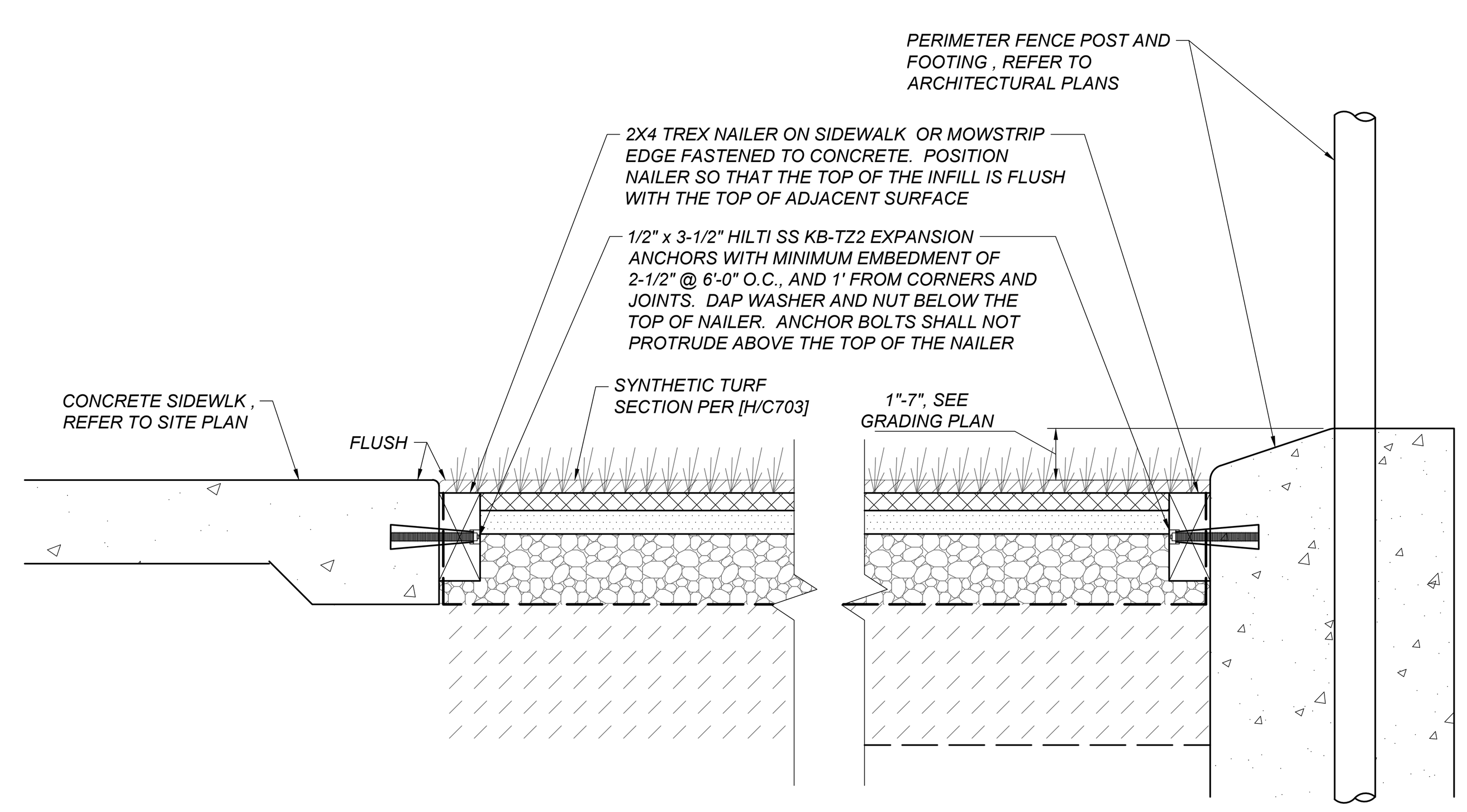

I / C703 — SYNTHETIC TURF NAILER AT CONCRETE HEADER
NOT TO SCALE

AGENCY APPROVAL DSA#

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SHEET TITLE
DETAILS

DRAWN BY: TJ JOB NUMBER: 24056

SHEET NO.
C703

DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

FILE LOCATION: P:\224-0178\Site\ProductionDrawings\224178dt03.dwg
PLOT BY: JCIESLA
DATE PLOTTED: 2/06/2025 4:50:43PM

POINT OF CONNECTION

WATER SERVICE SIZE/MAX FLOW: 4" / 480 GPM

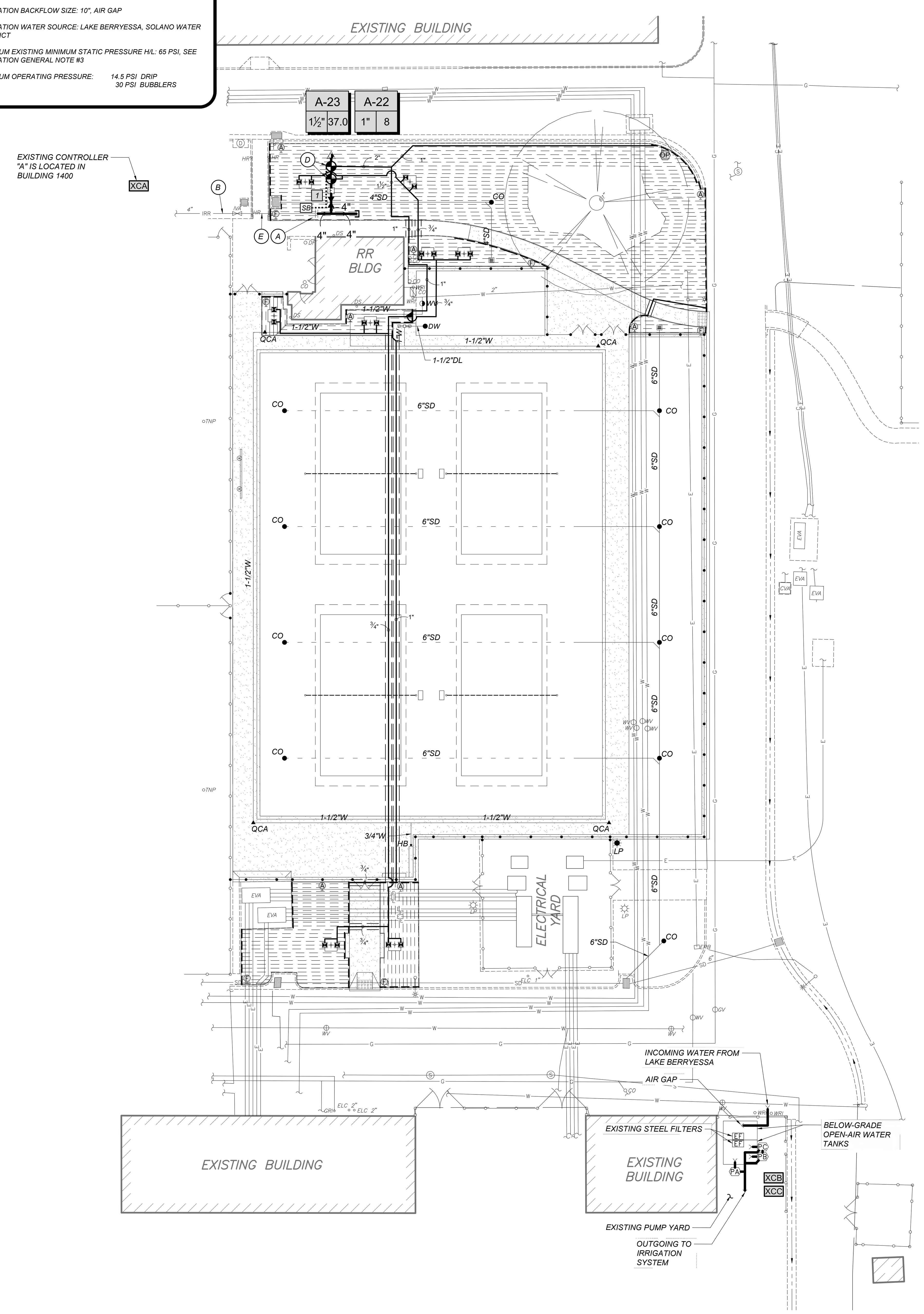
MAXIMUM STATION FLOW: 40.0 GPM

IRRIGATION BACKFLOW SIZE: 10", AIR GAP

IRRIGATION WATER SOURCE: LAKE BERRYESSA, SOLANO WATER DISTRICT

MINIMUM EXISTING MINIMUM STATIC PRESSURE H/L: 65 PSI, SEE IRRIGATION GENERAL NOTE #3

MINIMUM OPERATING PRESSURE: 14.5 PSI DRIP
30 PSI BUBBLERS



IRRIGATION LEGEND:

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL
	ROOT WATERING SYSTEM 1402 RAIN BIRD RWS-B-C	360	30	0.5	3'	J/L102

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
F	FLUSH VALVE ASSEMBLY BALL VALVE WITH HOSE ADAPTER	E/L103
A	AIR RELIEF VALVE RAIN BIRD ARV050 1/2IN., MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6IN. DRIP VALVE BOX (SEB 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL. THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE, THUS PREVENTING WATER HAMMER OR BLOCKAGE.	F/L103
OP	DRIP SYSTEM OPERATION INDICATOR RAIN BIRD OPERIND, STEM RISES 6IN. FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16IN. OF 1/4IN. DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED.	D/L103
	AREA TO RECEIVE DRIPLINE AREA FOR DRIP LINE RAIN BIRD XFS-04-12; XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.4 GPH EMITTERS AT 12" O.C. LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	C/L103

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	REMOTE CONTROL VALVE GRISWOLD 2230-RE, SIZE AS NOTED. PRESSURE REDUCING, NORMALLY CLOSED REMOTE CONTROL VALVE. CAST IRON AND BRONZE MATERIAL. NPT END CONNECTION. WITH PURPLE HANDLE FOR RECLAIMED WATER, AND EPOXY COATING.	H/L102
	QUICK COUPLER RAIN BIRD 33-DNP	I/L102
	GATE VALVE NIBCO P-619-RW 4" VALVE W/ 2" NUT	F/L102
XCA	EXISTING CONTROLLER A IN BUILDING 1400. TRADITIONAL RAIN BIRD CONTROLLER, 21/24 STATIONS	
XCB	EXISTING CONTROLLER B LOCATED IN THE PUMP YARD TO THE SOUTHEAST OF THE VOLLEYBALL COURTS	
XCC	EXISTING CONTROLLER C	
PA	EXISTING PUMP A	
PB	EXISTING PUMP B	
PC	EXISTING PUMP C	
F	IN-LINE FILTER RAIN BIRD LCRBY200S, 2IN. MODEL. 120 MESH (130 MICRON) SCREEN FILTERS.	A/L103
X X	CAP FOR FUTURE USE CAP AT THE MAINLINE OR LATERAL LINE FOR FUTURE USE.	
SB	SPLICE BOX	K/L102
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 PURPLE COLOR, BELL-END, SOLVENT WELD, SIZE AS NOTED	C/L102
	IRRIGATION MAINLINE: PVC C900 SDR 14 CLASS 305 PURPLE COLOR, SIZE AS NOTED	C/L102
	PIPE SLEEVE: PVC SCHEDULE 40 24" COVER UNDER ROADWAY PAVING, 18" COVER UNDER CONCRETE PAVING	D/L102
	DRIPLINE MANIFOLD: PVC SCHEDULE 40 PURPLE COLOR	B/L103
	CONTROL WIRE PLUS ONE (1) COMMON WIRE	C/L102
# / #" #	VALVE NUMBER VALVE FLOW (GPM) VALVE SIZE	
#	NUMBER OF SPARE CONTROL WIRE PLUS ONE (1) SPARE COMMON WIRE. PROVIDE A 10 FOOT LOOP IN VALVE BOX	
	PROPOSED TREE, SEE PLANTING PLAN ON SHEET L201 FOR VARIETY AND SIZE	
A	CONNECT NEW MAIN LINE TO EXISTING TRANSITE MAIN LINE; TOP OF NEW MAIN LINE SHALL BE 24" BELOW FINISH SURFACE	
B	EXISTING TRANSITE IRRIGATION MAIN LINE SHALL REMAIN. PROTECT IN PLACE	
C	PIPE SHOWN OUTSIDE OF PLANTER FOR CLARITY. INSTALL PIPE WITHIN PLANTER. SEE GENERAL IRRIGATION NOTE #8	
D	CONNECT NEW IRRIGATION CONTROL VALVES TO EXISTING SPARE WIRE SALVAGED FROM DEMOLITIONED IRRIGATION CONTROL VALVES IN THIS AREA	

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

CATO M. HESKETT, PLA 6932

CERTIFICATE OF COMPLETION REQUIREMENTS:

PER MWELO SECTION 492.9, UPON COMPLETION OF THE LANDSCAPE PLANTING AND IRRIGATION SYSTEM, AND AS A CONDITION OF FINAL ACCEPTANCE AND/OR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE LICENSED LANDSCAPE CONTRACTOR SHALL SUBMIT TO THE CITY AND TO THE OWNER THE FOLLOWING ITEMS IN A FORM ACCEPTABLE TO THE CITY:

- PROJECT INFORMATION AND CONTACT INFORMATION FOR THE OWNER AND APPLICANT.
- A CERTIFICATION THAT THE INSTALLATION COMPLIES WITH THE APPROVED DOCUMENTATION PACKAGE.
- IRRIGATION SCHEDULING PARAMETERS USED IN PROGRAMMING THE CONTROLLER.
- A PLANTING AND IRRIGATION MAINTENANCE SCHEDULE.
- AN IRRIGATION AUDIT REPORT PREPARED BY A CERTIFIED LANDSCAPE IRRIGATION AUDITOR.
- A HORTICULTURAL SOILS ANALYSIS REPORT AND RECOMMENDATIONS IF NOT SUBMITTED EARLIER WITH THE LANDSCAPE DOCUMENTATION PACKAGE.
- DOCUMENTATION IN THE FORM OF MATERIAL RECEIPTS, INVOICES AND/OR OTHER DOCUMENTS THAT THE RECOMMENDATIONS OF THE HORTICULTURAL SOILS ANALYSIS REPORT AS MODIFIED AND APPROVED BY THE LANDSCAPE ARCHITECT HAVE BEEN IMPLEMENTED AND INSTALLED.

CONTRACTOR SPECIAL IRRIGATION NOTES:

1. THE CONTRACTOR SHALL PERFORM AN OPERATIONAL ASSESSMENT OF THE EXISTING IRRIGATION SYSTEM WITHIN THE AREA OF WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
2. THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING PLANTING SCHEDULED TO REMAIN SHALL CONTINUE TO BE IRRIGATED THROUGHOUT THE COURSE OF CONSTRUCTION OPERATIONS. ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM THAT IMPACTS EXISTING PLANTING TO REMAIN SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION.
3. PRIOR TO THE START OF ANY SHRUB, GROUND COVER, AND/OR TURFGRASS PLANTING, AN OPERATIONAL REVIEW OF THE IRRIGATION SYSTEM SHALL BE PERFORMED FOR PROPER COVERAGE AND SOIL MOISTURE DEPTH BY THE OWNER'S REPRESENTATIVE. ALL CORRECTIONS AND/OR ADJUSTMENTS SHALL BE COMPLETED AND VERIFIED BY THE OWNER'S REPRESENTATIVE BEFORE GROUND LEVEL PLANTING MAY COMMENCE.
4. THE ORIGINAL IRRIGATION SYSTEM OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
5. THE AS-BUILT RECORD DRAWING SET AND OTHER CLOSE-OUT ITEMS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.
6. UNLESS NOTED OTHERWISE, SALVAGE AND RETURN TO THE OWNER ALL IRRIGATION VALVES, HEADS AND OTHER EQUIPMENT COMPONENTS REMOVED AS PART OF THE WORK. SALVAGED COMPONENTS SHALL BE CLEAN AND IN WORKING CONDITION UNLESS NOTED AS NON-OPERATIONAL DURING THE OPERATIONAL ASSESSMENT.

WATER EFFICIENT LANDSCAPE WORKSHEET
Educational - DSA PR 15-03 224-0178

Project: Solano Community College Beach Volleyball Comple
Location: 4000 Suisun Valley Road, Fairfield, CA 94534
ETo Reference (MWELO-Apdx. A): Fairfield

MAWA = MAXIMUM APPLIED WATER ALLOWANCE (1,000 GALLONS)

TOTAL NEW BUILDING FOOTPRINT	0 SF	(1,600 sf is threshold for inclusion)
75% OF BLDG. SF REQ'D LANDSCAPE	0 SF	
EXIST. IRRIGATION REMOVED FROM SERVICE	6,379 SF	
REGULAR LANDSCAPE AREA	6,761 SF	(landscape area >500 sf)
SPECIAL LANDSCAPE AREA (SLA)	0 SF	
TOTAL PROPOSED LANDSCAPE AREA (LA)	6,761 SF	
TOTAL OVER (UNDER) REQUIRED AREA	13,140 SF	

NORMAL YEAR REFERENCE	ANNUAL
EVAPOTRANSPIRATION (ETo)	45.2
EFFECTIVE PRECIPITATION (25% OF ANNUAL)	0.0
ADJUSTED EVAPOTRANSPIRATION	45.2

MAWA=(ETo) x (0.62) [(0.65 x LA)+(0.35 x SLA)]	ANNUAL		2015 DWR/DSA Update
MAX. APPLIED WATER ALLOWANCE	**123.2**	K Gallons	
TOTAL IN ACRE/FT	0.4		
TOTAL IN CCF	164.6		

ETWU = ESTIMATED TOTAL WATER USE (1,000 GALLONS)

LANDSCAPE HYDROZONE TYPES	6,761	HA	PF	IE	ETAF
MIXED PLANTING (L)	6,761	SF	0.3	0.81	0.37
MIXED PLANTING (M)	0	SF	0.5	0.81	0.62
WARM-SEASON TURFGRASS (MH)	0	SF	0.6	0.75	0.80
SLA - RECREATIONAL/RECYCED WATER USE	0	SF	0.6	0.75	0.80
			AVERAGE REGULAR ETAF:		0.37
			MAXIMUM AVERAGE REGULAR ETAF:		**0.65**
			AVERAGE SITEWIDE ETAF:		0.37

ETWU=(ETo) x (0.62)x [(HA x PF/IE) + SLA]	ANNUAL		typical IE coeficients	
MIXED PLANTING (L)	70.2		0.75	overhead sprinklers
MIXED PLANTING (M)	0.0		0.81	drip & bubblers
WARM-SEASON TURFGRASS (M)	0.0			
SLA - RECREATIONAL/RECYCED WATER USE	0.0			
ESTIMATED TOTAL WATER USE	**70.2**	K Gallons		
TOTAL IN ACRE/FT	0.2			
TOTAL IN CCF	93.8			

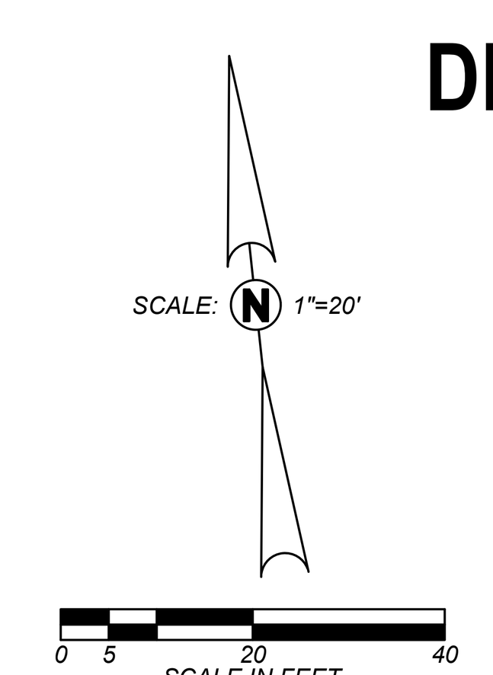
ETWU AS A PERCENT OF MAWA: 57%

IRRIGATION SYSTEM OBSERVATION LOG

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REP OR LAND ARCH		DATE
		PRINT NAME	SIGNATURE	
IR-1	EXISTING SYSTEM OPERATION & PRESSURE CHECK			
IR-2	PIPING/WIRE SLEEVES UNDER PAVEMENT			
IR-3	MAIN LINE INSTALLATION & PRESSURE TEST			
IR-4	VALVE INSTALLATIONS			
IR-5	IRRIGATION COVERAGE PRIOR TO PLANTING			
IR-6	CONTROL EQUIPMENT INSTALLATION	N/A	N/A	
IR-7	BOOSTER PUMP INSTALLATION & START-UP (MANUF.)	N/A	N/A	
IR-8	FINAL SYSTEM OPERATION REVIEW			

NOTE: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.

SEE SHEET L102-L103 FOR IRRIGATION NOTES AND DETAILS



811 Know what's below. Call before you dig.

AGENCY APPROVAL DSA#

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TE (913)961-1658

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
CATO M. HESKETT No. 6932
Signature
7/31/25
Renewal Date
02/10/2025
Date
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
IRRIGATION PLAN

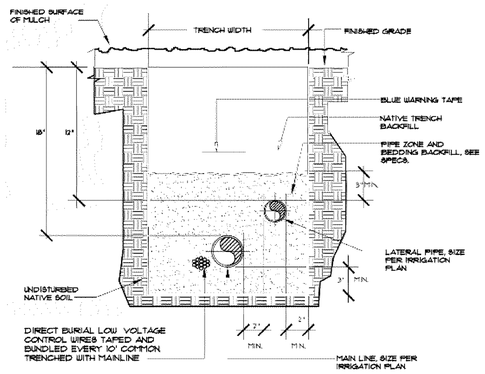
DRAWN BY: CMH JOB NUMBER: 24056

SHEET NO.
L101

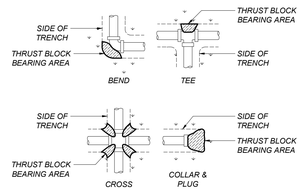
DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

FILE LOCATION: P:\224-0178\Site\ProductionDrawings\224178r01.dwg
PLOT BY: CHESKETT
DATE PLOTTED: 2/06/2025 4:50:54PM



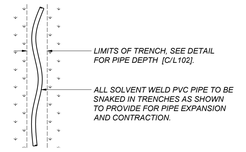
A L102 TYPICAL COMBINATION TRENCH
NOT TO SCALE



NOTE: CONCRETE PER SPECIFICATIONS. THRUST BLOCKS NOT REQUIRED WITH LESS THAN 2" MAIN LINE

TABLE OF BEARING AREAS REQUIRED (IN SQUARE FEET)					
PIPE DIAMETER	*≤4"*	*6"*	*8"*	*10"*	*12"*
CROSS, TEE, 90° BEND, PLUG, FIRE HYDRANT	*1*	*3*	*5*	*8*	*11*
45° BEND	*1*	*2*	*3*	*4*	*6*
22-1/2° BEND	*0.5*	*1*	*2*	*2*	*3*
11-1/4° BEND	*0*	*0*	*1*	*1*	*2*
GATE VALVE (IN-LINE)	*0*	*1*	*2.5*	*4*	*9*

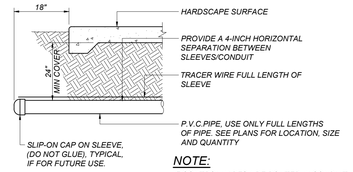
B L102 CONCRETE THRUST BLOCKS
NOT TO SCALE



C L102 SOLVENT WELD PIPE
NOT TO SCALE

CONDUIT/SLEEVE FOR CONTROL WIRE	
CONDUIT/SLEEVE SIZE	*QTY. 14 GA. WIRE*
1"	*8 OR LESS*
1-1/4"	*15*
1-1/2"	*20*
2"	*32*
2-1/2"	*45*
3"	*70*
4"	*120*

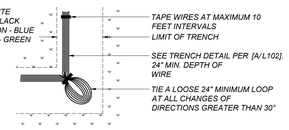
NOTE: SLEEVE FOR PIPE IS 2X THE PIPE DIAMETER



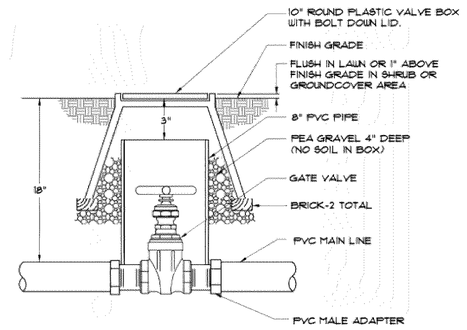
NOTE:
IF CONTROL WIRES ARE ROUTED IN CONDUIT, SLEEVE FOR WIRES IS NOT REQUIRED

D L102 IRRIGATION SLEEVE/CONDUIT
NOT TO SCALE

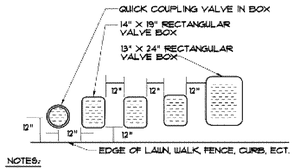
NOTES:
1. WIRES UNDER PAVEMENT OR WALKS SHALL BE INSTALLED WITHIN A CONDUIT WHICH HAS BEEN PLACED BY BORING, JACKING OR DRILLING. CONDUIT TO BE PVC SCH 40 TYPE II PIPE. WIRES SHALL NOT BE TAPED TOGETHER INSIDE THE CONDUIT.
2. NO SPLICES ARE ALLOWED BETWEEN POINTS OF CONNECTIONS.
3. A VALVE BOX MUST BE PROVIDED AT ALL UNDERGROUND SPLICE CONNECTIONS.
4. HOT - RED
   COMMON - WHITE
   SPARE HOT - BLACK
   SPARE COMMON - BLUE
   TRACER WIRE - GREEN



E L102 IRRIGATION WIRE
NOT TO SCALE

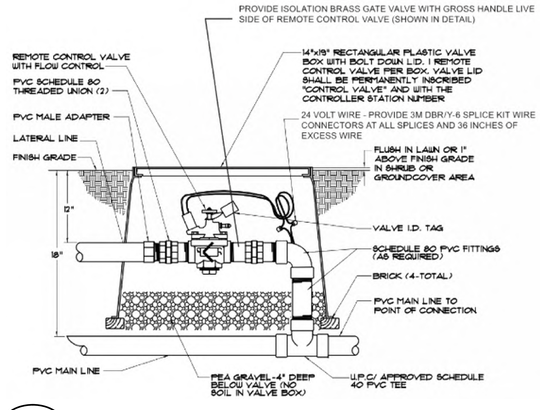


F L102 GATE VALVE INSTALLATION
NOT TO SCALE

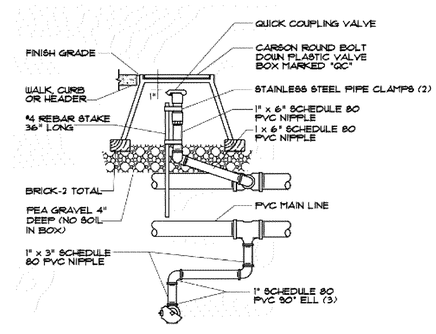


NOTES:
1. CENTER BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. ALL VALVE BOXES SHALL HAVE BOLT DOWN LIDS.
7. VALVE LID SHALL BE PERMANENTLY INSCRIBED "CONTROL VALVE" AND WITH THE CONTROLLER STATION NUMBER. AND BE PURPLE IN COLOR WHERE NON-POTABLE WATER IS USED.

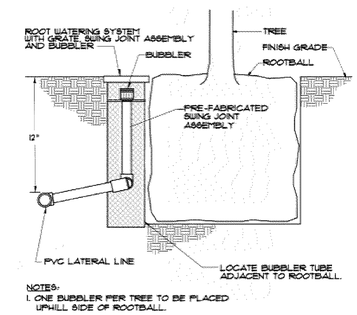
G L102 VALVE BOX INSTALLATION
NOT TO SCALE



H L102 REMOTE CONTROL VALVE INSTALLATION
NOT TO SCALE

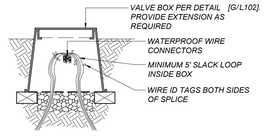


I L102 1" QUICK COUPLER IN BOX
NOT TO SCALE



NOTES:
1. ONE BUBBLER PER TREE TO BE PLACED UPHILL SIDE OF ROOTBALL.

J L102 TREE BUBBLER INSTALLATION
NOT TO SCALE



K L102 SPLICEBOX
NOT TO SCALE

SEE SHEET L101 FOR IRRIGATION PLAN

AGENCY APPROVAL DSA#

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

196
185 CLARA STREET, SUITE 101A
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TEL 628.212.9200

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CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
IRRIGATION DETAILS

DRAWN BY: CMH JOB NUMBER: 24056

SHEET NO.
L102

DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 2/06/2025 4:51:07PM PLOT BY: CHESKETT FILE LOCATION: P:\224-6178\Site\Production\Drawings\224178rdd01.dwg

GENERAL IRRIGATION NOTES:

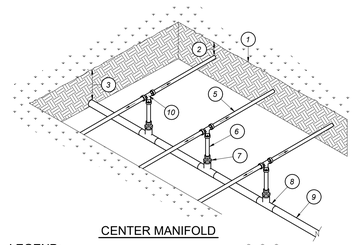
1. *ALL ITEMS IN THE LEGEND ARE TO BE FURNISHED AND INSTALLED, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS OR PROCESSES SPECIFIED BY NAME. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER. (ALL MATERIAL REQUIRED SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE)*
2. *THE DESIGN ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER.*
3. *PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE; AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.*
4. *THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATIONAL.*
5. *THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES. UTILITIES SHOWN ARE FOR THE CONTRACTOR'S AWARENESS AND NO SURVEY HAS BEEN COMPLETE TO VERIFY THE ACCURACY OF THE UTILITIES SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.*
6. *THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS SHOWN AND TO ADJUST SAID DIMENSIONS TO FIT SITE CONDITIONS AND ACTUAL EQUIPMENT INSTALLED.*
7. *THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION FACILITIES AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.*
8. *THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND HEADS SHALL BE LOCATED IN PLANTING AREAS WHENEVER POSSIBLE.*
9. *THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO WARN AND PROTECT THE PUBLIC. OTHER SITE CONTRACTORS AND HIS WORKERS FROM POSSIBLE INJURY DUE TO HIS CONSTRUCTION EQUIPMENT AND OPERATIONS.*
10. *DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL HIS WORK, AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO INSTALL THE PROPOSED FACILITIES AND ACCOMMODATE THE SITE CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE DONE TO PROVIDE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. ALL WORK TO BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LOCAL CODES AND ORDINANCES.*
11. *VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE. VALVES IN ATHLETIC SPORTS FIELDS SHALL BE LOCATED OUTSIDE OF THE FIELD-OF-PLAY TO THE GREATEST EXTENT POSSIBLE.*
12. *THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN (SEE LANDSCAPE PLAN(S) THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL.*
13. *ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER LANDSCAPE SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.*
14. *INSTALL SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS. SLEEVES SHALL BE PVC SCH. 40 PVC OR SDR 35 AND TWICE THE DIAMETER OF THE PIPE UNLESS OTHERWISE NOTED. CONTROL WIRING SHALL BE SLEEVED IN 2" SCH 40 PVC UNLESS OTHERWISE NOTED. MINIMUM DEPTH OF SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS IS 18" BELOW SUBGRADE OR 24" BELOW FINISHED GRADE, WHICHEVER IS GREATER.*
15. *CONTRACTOR SHALL SAWCUT TO EXISTING JOINTS, REMOVE AND REPLACE SURFACING (CONCRETE, ASPHALT) AS NECESSARY TO INSTALL THE IRRIGATION SYSTEM.*
16. *THE CONTRACTOR SHALL PROVIDE AND KEEP AN UP-TO-DATE "RECORD DRAWING" SHOWING ALL CHANGES TO THE ORIGINAL DRAWINGS AND EXACT LOCATIONS OF THE FACILITIES INSTALLED. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH MARKED "RECORD DRAWINGS" TO THE INSPECTOR.*
17. *THE CONTRACTOR SHALL PROVIDE ADJUSTMENT OF NOZZLE ARC AND RADIUS, INCLUDING ANY ALTERNATE NOZZLE TYPES, NECESSARY TO PROVIDE COMPLETE COVERAGE, TO SUIT ACTUAL SITE CONDITIONS, AND TO MINIMIZE OVERSPRAY ONTO HARDSCAPE, PAVEMENT AND/OR STRUCTURES.*
18. *CONCRETE ANCHORS OR THRUST BLOCKS SHALL BE PROVIDED ON ALL MAIN LINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES IN HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST CONTROL SHALL BE FOLLOWED. THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.*
19. *ALL MAIN LINE AND LATERAL LINE PIPES UNDER PAVEMENT SHALL BE PRESSURE TESTED WITH THE VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. IF ANY LEAKS DEVELOP, THE REPAIRS ARE TO BE MADE AND THE TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATERTIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN THE PIPE IS PROVEN WATERTIGHT AND ONLY THEN MAY THE LINE BE BACKFILLED.*
20. *WIRED CONNECTIONS BETWEEN THE CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH ONE CONTINUOUS DIRECT BURIAL WIRE RUN. A VALVE BOX MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE AT ALL UNDERGROUND SPLICES.*
21. *ONLY TEFLON TAPE OR AN APPROVED TEFLON PASTE MAY BE USED AS THE SEALING MATERIAL TO MAKE ALL THREADED CONNECTIONS. A MINIMUM OF TWO (2) WRAPS IN THE DIRECTION OF THE THREADS TO BE USED FOR TAPE. NO OTHER PIPE JOINT MATERIAL WILL BE ALLOWED WITHOUT THE WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.*
22. *THE CONTRACTOR SHALL PROVIDE TWO (2) INDIVIDUALLY BOUND SETS OF OPERATION AND MAINTENANCE MANUALS. THE MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION:*
    - *A. CONTRACTOR'S ADDRESS AND PHONE NUMBER.*
    - *B. DURATION OF GUARANTEE PERIOD (ONE YEAR AFTER FINAL ACCEPTANCE).*
    - *C. NAMES, ADDRESSES AND PHONE NUMBERS OF LOCAL MANUFACTURER REPRESENTATIVES.*
    - *D. COMPLETE SET OF MANUFACTURER'S LITERATURE AND SPECIFICATIONS.*
    - *E. COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.*
    - *F. ISSUE A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" WHICH STATES THAT ALL WORK DONE AND MATERIALS AND EQUIPMENT USED ARE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND ALL AUTHORIZED REVISIONS.*
    - *G. INITIAL ELECTRICAL DATA ON EACH VALVE:*
        - *(1) OHMMS READING FOR EACH VALVE TAKEN AT THE CONTROLLER.*
        - *(2) VOLTAGE READING FOR EACH VALVE TAKEN BOTH AT THE CONTROLLER AND AT THE VALVE.*
23. *THE CONTRACTOR SHALL PROVIDE TWO SETS OF CONTROLLER CHARTS. THE CHARTS TO BE A REDUCED DRAWING OF THE ACTUAL PLANS. THE CHARTS SHALL BE COLORED WITH A DIFFERENT COLOR FOR EACH IRRIGATION CIRCUIT. THE CHARTS SHALL BE COVERED IN A WATERTIGHT ENVELOPE.*
24. *IRRIGATION LINE TRENCHING AND PIPE INSTALLATION LOCATED WITHIN THE CANOPY DRIP LINE OF EXISTING TREES SHALL BE PERFORMED BY HAND OR BY AIR SPADE WITHOUT CUTTING OR DAMAGING EXISTING ROOTS GREATER THAN ONE INCH IN DIAMETER. SEE EXISTING LANDSCAPE PROTECTION SECTION FOR ADDITIONAL REQUIREMENTS.*
25. *REPLACE ALL DAMAGED EXISTING VALVE BOXES AND/OR LIDS WITHIN THE AREA OF WORK. ADJUST THE ELEVATION OF ALL EXISTING VALVE BOXES WITHIN THE AREA OF WORK TO FINISH GRADE AS NECESSARY TO COMPLY WITH THE VALVE BOX DETAIL.*

DRIP SYSTEM IRRIGATION NOTES:

1. *ALL ITEMS, ACCESSORIES, FITTINGS, ETC. NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING SUB-SURFACE DRIP SYSTEM ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.*
2. *THE EQUIPMENT AND COMPONENTS CALLED OUT ON THE DRAWING LEGEND ARE THE PREFERENCE OF THE OWNER AND ARE SELECTED TO MATCH EQUIPMENT AND COMPONENTS IN USE IN OTHER SIMILAR IRRIGATION SYSTEMS OF THE OWNER.*
3. *PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY ANY EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE; AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AND AVAILABLE SAFE FLOW AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE ENGINEER BEFORE STARTING WORK, OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.*
4. *THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND COMPONENTS SHALL BE LOCATED IN PLANTING AREAS, UNLESS NOTED OTHERWISE. VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE.*
5. *INSTALL DRIP EMITTERS IN A TRIANGULAR OR STAGGERED PATTERN AND AT A CONSISTENT DEPTH BELOW GRADE AS SHOWN OR INDICATED IN THE DRAWINGS.*
6. *STAKE THE EMITTER TUBING USING THE MANUFACTURER'S RECOMMENDED STAKES DIRECTLY OVER EVERY OTHER EMITTER. FOR EXAMPLE, IF THE EMITTERS ARE SPACED AT 18 INCHES O.C., THEN STAKE AT 36 INCHES O.C.*
7. *PRIOR TO BACKFILLING THE DRIP TUBING AND THE START OF PLANTING OPERATIONS, THE SYSTEM SHALL BE REVIEWED FOR PROPER OPERATION BY THE OWNER'S REPRESENTATIVE.*
8. *PROGRAM THE CONTROLLER TO OPERATE THE CONTROL VALVE(S) FOR THE DRIP SYSTEM USING THE CONTROLLER'S "CYCLE AND SOAK" FEATURE IN ORDER TO APPLY THE REQUIRED WATER AMOUNT IN THREE EQUAL CYCLES.*
9. *PRIOR TO THE START OF PLANTING OPERATIONS, THE DRIP SYSTEM SHALL BE OPERATED FOR A FREQUENCY AND DURATION TO ADEQUATELY MOISTEN THE TOPSOIL TO A MINIMIM DEPTH OF 12 INCHES AT ANY LOCATION WITHIN THE PLANTING AREA .*
10. *THE CONTRACTOR SHALL PROVIDE ONE HUNDRED (100) FEET OF IN-LINE EMITTER TUBING OF THE SAME MODEL AS SPECIFIED, ENOUGH STAKES FOR THE 100 FEET, AND TEN (10) OF EACH TYPE OF FITTINGS USED ON THE PROJECT FOR THE OWNER'S USE AS SPARE PARTS.*
11. *IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES, AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATION.*
12. *THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL PRIOR TO THE START OF WORK. ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER THE PLANTING SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.*

SOLANO COMMUNITY COLLEGE DISTRICT STANDARD IRRIGATION NOTES

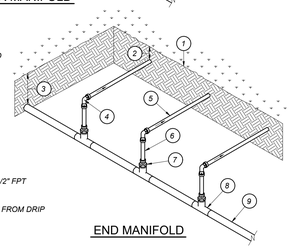
1. **THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.**
2. **DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.**
3. **IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.**
4. **DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THEN WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.**
5. **ELECTRICAL CONTRACTOR TO SUPPLY 120 VOLT A.C. (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER.**
6. **EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.**
7. SPLICING OF 24 VOLT CABLE WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN.
8. **2-WIRE CABLE SHALL BETWEEN CONTROLLER AND DECODERS SHALL BE PAIGE P7350D 14 AWG SOLID COPPER JACKETED 2-CONDUCTOR DIRECT BURIAL CABLE. 2-WIRE CABLE BETWEEN DECODERS AND SOLENOIDS SHALL BE PAIGE P7351D DTS 14 AWG SOLID COPPER JACKETED 2-CONDUCTOR DIRECT BURIAL CABLE.**
9. **THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.**
10. **NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT WHICH WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS INSTRUCTIONS ARE OBTAINED.**
11. **ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.**
12. **SPRINKLERS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER USE A TORO POP-UP BODY WITH INTEGRAL CHECK VALVE OR A KING BROS. CV SERIES CHECK VALVE ON SHRUB RISERS IN LIEU OF SCHEDULE 80 COUPLING.**
13. **THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.**
14. **OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM.**
15. **IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.**
16. **PRIOR TO TRENCHING, CALL UNDERGROUND SERVICE ALERT, (1-800) 642-2444 FOR NORTHERN CALIFORNIA.**
17. **WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, THE IRRIGATION CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD OR HALF CIRCLE HEAD AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST**
18. **WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES, AND TREE ROOTS. EXCAVATION IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ROOTS TWO (2) INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN A PLASTIC BAG AND SECURED WITH A RUBBER BAND. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN TWENTY-FOUR (24) HOURS; WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.**
19. **STATIC PRESSURE AT POINT OF CONNECTION IS APPROXIMATELY XX PSI.**
20. **INSTALL ALL IRRIGATION VALVE BOXES SHALL BE PURPLE FOR USE WITH RECYCLED WATER AND LCOATED WITHIN GROUNDCOVER AREAS ONLY. DO NOT INSTALL WITHIN TURF AREAS. DO NOT LOCATE VALVES AT PEDESTRIAN ENTRY POINTS OR AT PEDESTRIAN CHANGE OF DIRECTION**



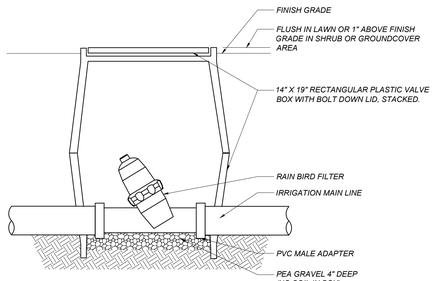
CENTER MANIFOLD

LEGEND:

1. *FINISH GRADE*
2. *DEPTH OF TUBING BELOW FINISHED GRADE - SEE LEGEND*
3. *MIN. 12" DEPTH OF PVC SUPPLY / FLUSH MANIFOLD BELOW FINISHED GRADE*
4. *ELBOW*
5. *DRIPLINE LATERAL, SEE PLAN*
6. *POLY TUBING, LENGTH AS NECESSARY*
7. *MALE ADAPTER*
8. *SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET*
9. *SCH 40 PVC SUPPLY MANIFOLD FROM DRIP ZONE KIT*
10. *TEE*

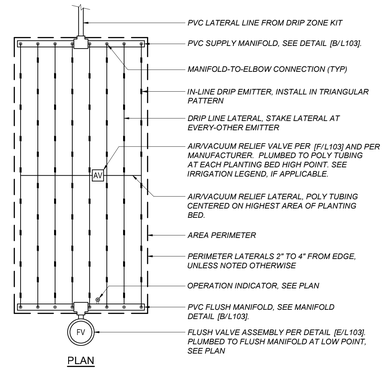


END MANIFOLD



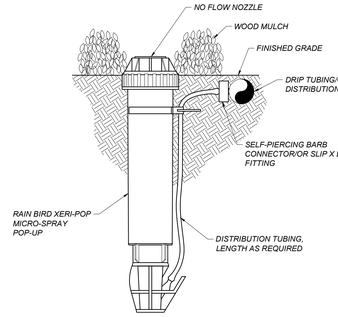
A L103 IN-LINE FILTER ASSEMBLY
NOT TO SCALE

B L103 DRIPLINE MANIFOLD
NOT TO SCALE

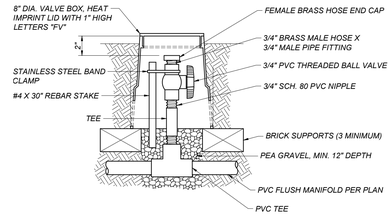


PLAN

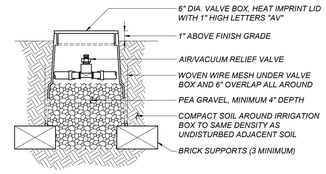
C L103 DRIPLINE LAYOUT SCHEMATIC
NOT TO SCALE



D L103 DRIP SYSTEM OPERATION INDICATOR
NOT TO SCALE



E L103 DRIPLINE FLUSH VALVE
NOT TO SCALE



F L103 DRIPLINE AIR/VACUUM RELIEF VALVE
NOT TO SCALE

SEE SHEET L101 FOR IRRIGATION PLAN

AGENCY APPROVAL DSA#

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

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ELECTRICAL ENGINEER
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CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
IRRIGATION DETAILS

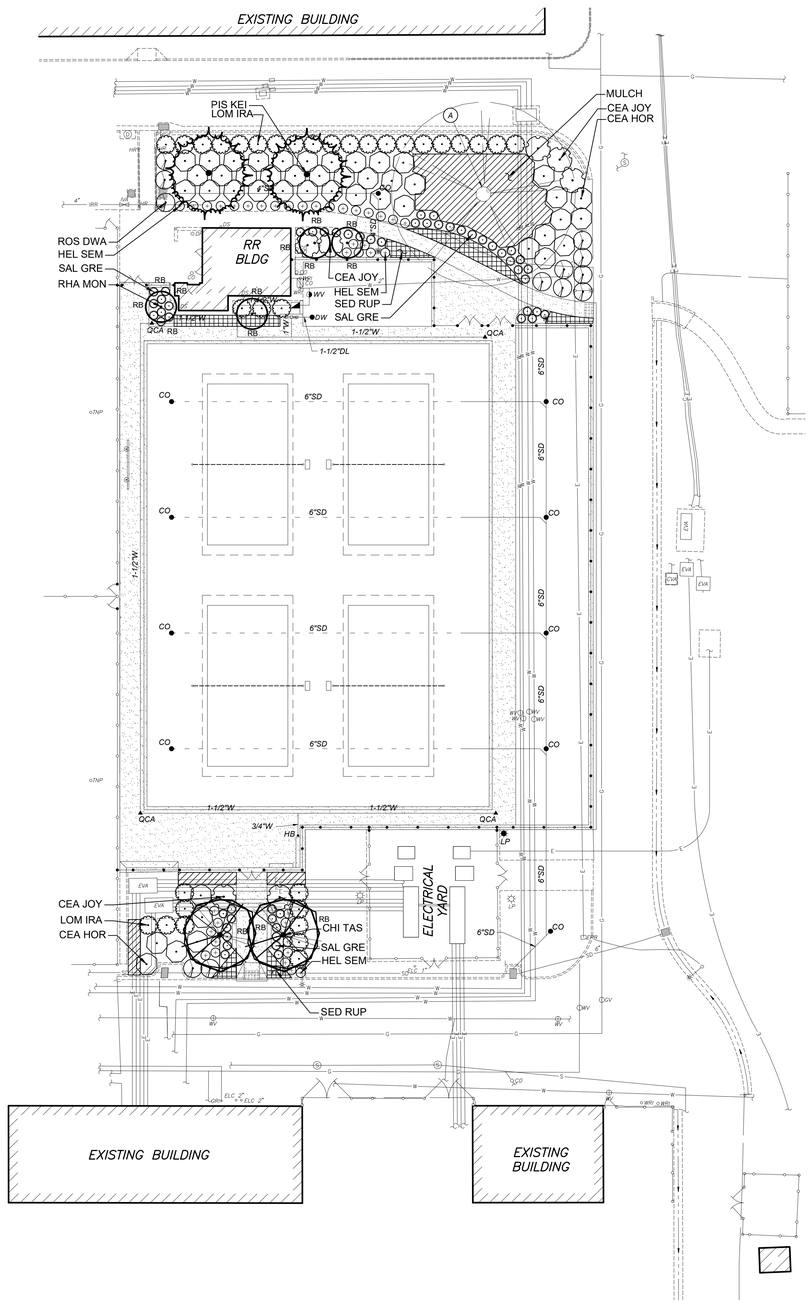
DRAWN BY: CMH JOB NUMBER: 24056

SHEET NO.
L103

DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 2/06/2025 4:51:09PM PLOT BY: CHESKETT FILE LOCATION: P:\224-0178\Site\Production\Drawings\224178rdd01.dwg



PLANT LEGEND:

TOTAL AREA OF MIXED PLANTING: 6,761 SQ FT — *SUNSET ZONE: 15*

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
TREES							
	PIS KEI	PISTACIA CHINENSIS 'KEITH DAVEY' KEITH DAVEY CHINESE PISTACHE	24"BOX	L	2	A/L202	DECIDUOUS STANDARD FORM FULL SUN MS: 30' H X 30' W
	RHA MON	RHAPHIOLEPIS X 'MONTIC' MAJESTIC BEAUTY® INDIAN HAWTHORN	24"BOX	L	4	A/L202	EVERGREEN MULTI-TRUNK FORM FULL SUN MS: 20' H X 10' W
	CHI TAS	X CHITALPA TASHKENTENSIS CHITALPA	24"BOX	L	2	A/L202	DECIDUOUS STANDARD FORM FULL SUN MS: 20-30' H X 20-30' W

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	QTY	DETAIL	REMARKS
SHRUBS							
	CEA HOR	CEANOTHUS GRISEUS HORIZONTALIS CARMEL CREEPER	5 GAL	L	45	B/L202	EVERGREEN FULL SUN TO PART SHADE CA NATIVE MS: 2-3' H X 8-10' W
	CEA JOY	CEANOTHUS X 'JOYCE COULTER' JOYCE COULTER WILD LILAC	5 GAL	L	7	B/L202	EVERGREEN PERENNIAL FULL SUN CA NATIVE MS: 2' H X 10-12' W
	HEL SEM	HELICTOTRICHON SEMPERVIRENS BLUE OAT GRASS	5 GAL	L	38	B/L202	SEMI-EVERGREEN SUN TO PART SHADE MS: 2' H X 2-3' W
	LOM IRA	LOMANDRA LONGIFOLIA 'BREEZE' BREEZE™ MAT RUSH	5 GAL	L	33	B/L202	EVERGREEN PARTIAL SUN TO PARTIAL SHADE MS: 4-5' H X 6-7' W
	ROS DWA	ROSMARINUS OFFICINALIS 'PROSTRATUS' DWARF ROSEMARY	5 GAL	L	12	B/L202	EVERGREEN FULL SUN MS: 2' H X 4-8' W
	SAL GRE	SALVIA GREGGII 'HOT LIPS' AUTUMN SAGE	5 GAL	L	53	B/L202	EVERGREEN FULL SUN TO PART SHADE CA NATIVE MS: 2-3' H X 3' W

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
GROUND COVERS							
	SED RUP	SEDUM RUPESTRE REFLEXED STONECROP	5 GAL	L	466	C/L202	EVERGREEN FULL SUN TO FULL SHADE MS: 0.5-1' H X 1-1.5' W TRIANGULAR SPACING @ 1' O.C.
	MULCH	WOOD MULCH WALK-ON BARK TYPE	N/A	N/A	1,172 SF	E/L202	MIN. 3" DEPTH IN ADDITION TO TOTAL PLANTING AREA.
	RB	ROOT BARRIER				D/L202	24 INCH DEEP ROOT BARRIER PANELS. INSTALL PER MANUFACTURER'S SPECIFICATIONS
	A	PROTECT EXISTING STONE PINE TREE IN PLACE. TPZ 1 (TREE PROTECTION ZONE) PER SPECIFICATION 320190					

LANDSCAPE SHADE CALCULATIONS — *SHADING PER CALGREEN 5.106.12*

SITE SHADING - LANDSCAPE & HARDSCAPE	QUANTITY PROPOSED (SF)	PERCENT REQUIRED	SHADE AREA REQUIRED (SF)
LANDSCAPED AREA (EXCLUDING SPECIAL USE & PARKING LANDSCAPE AREAS)	6,761	20	1,352
UNCOVERED HARDSCAPE AREA (EXCLUDING PARKING HARDSCAPE AREAS)	342	20	68
TOTAL SITE SHADE REQUIRED			1,421
PROVIDED SHADE TREES	**PROVIDED SHADE AREA**	**NO. TREES**	
VERY LARGE (40' dia.= 1256 SF)	0	0	
LARGE (35' dia.= 962 SF)	0	0	
MEDIUM (30' dia.= 707 SF)	1,414	2	
SMALL (20' dia.= 314 SF)	628	2	
Extra SMALL (10' dia.= 79 SF)	1,256	4	
TOTALS	3,298	8	
OVER (UNDER) LANDSCAPE & HARDSCAPE SHADE REQUIREMENT			**1,877**

TREE SIZE AND QUALITY STANDARDS

AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1) AND GUIDELINE SPECIFICATIONS FOR NURSERY TREE QUALITY (URBAN TREE FOUNDATION SHALL APPLY

	TYPES 1 & 2 SHADE TREES			TYPE 3 SMALL UPRIGHT TREES **			TYPE 4 SMALL SPREADING TREES ***		
CONTAINER SIZE	MIN. CALIPER	MAX. CALIPER	TYPE 1 MIN./MAX. HEIGHT *	MIN. CALIPER	MAX. CALIPER	MIN./MAX. HEIGHT	MIN. CALIPER	MAX. CALIPER	MIN./MAX. HEIGHT
15 GALLON	0.75	2.0	7-10 FT	0.75	2.0	6-8 FT	0.75	2.0	4-8 FT
24" BOX	1.25	3.0	8-12 FT	1.25	3.0	8-10 FT	1.25	3.0	6-10 FT
36" BOX	1.75	3.5	10-16 FT	1.75	3.5	10-14 FT	1.75	3.5	7-12 FT
42" BOX	2.0	4.0	12-20 FT	2.0	4.0	12-18 FT	2.0	4.0	8-14 FT
48" BOX	2.5	5.0	14-26 FT	2.5	5.0	14-22 FT	2.5	5.0	9-16 FT

* *TYPE 2 TREE HEIGHTS SHALL NOT BE LESS THAN TWO-THIRDS THE LISTED HEIGHT RANGE.*

** *TYPE 3 TREES SHALL HAVE A MINIMUM OF SEVEN BRANCHES.*

*** *TYPE 4 TREES SHALL HAVE A MINIMUM OF EIGHT BRANCHES.*

CALIPER MEASUREMENT FOR CLUMP OR MULTI-STEM TREES IS ONE-HALF THE SUM OF THE THREE LARGEST TRUNK CALIPERS.

CALIPER MEASUREMENT FOR <4" TRUNK IS +6" ABOVE ROOTBALL (NOT INCLUDING ROOTSTOCK). >4" TRUNK IS +12".

TREES SHALL HAVE A CENTRAL LEADER. NEW LEADERS LESS THAN HALF THE DIAMETER OF A HEADED LEADER, BROKEN OR CO-DOMINATE LEADERS ARE NOT ACCEPTABLE.

SCAFFOLD BRANCHES SHALL BE LESS THAN 2/3 THE DIAMETER OF THE TRUNK, WITHOUT INCLUDED BARK AT ATTACHMENT. SCAFFOLD BRANCHES SHALL BE BALANCED, WELL SPACED VERTICALLY, AND WITH A RADIALLY BLANK SECTOR NO GREATER THAN 1/3 OF THE CANOPY CIRCUMFERENCE.

TEMPORARY BRANCHES ON THE LOWER TRUNK SHALL BE LESS THAN 3/8 INCH DIAMETER; AND THE CLEAR TRUNK HEIGHT SHALL BE NO MORE THAN 40% OF THE TOTAL TREE HEIGHT.

THE ROOT COLLAR AND ROOTBALL SHALL BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED AND GIRDLING ROOTS. ROOTS THE EDGE AND BOTTOM OF THE CONTAINER SHALL BE LESS THAN 1/4 INCH DIAMETER, AND UNIFORM THROUGHOUT THE CONTAINER.

TREE CANOPY WIDTH SHALL BE A MINIMUM OF 25% OF THE STANDARD FORM TREE HEIGHT.

DO NOT HEAD BACK OR PRUNE TREES UNLESS APPROVED AND/OR DIRECTED TO BY THE LANDSCAPE ARCHITECT.

LANDSCAPE PLANTING OBSERVATION LOG:

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REPRESENTATIVE: PRINT NAME	SIGNATURE	DATE
PL-1	REPORT & PROTECTION OF EXISTING TREES			
PL-2	RIPPING OF PLANTING AREAS			
PL-3	SOIL CONDITIONING & TILLAGE DEPTH			
PL-4	IRRIGATION COVERAGE PRIOR TO PLANTING			
PL-5	FINISH GRADING PRIOR TO PLANTING			
PL-6	TREES - INITIAL QUALITY & LAYOUT			
PL-7	PLANTS - INITIAL QUALITY & LAYOUT			
PL-8	GRANULAR PRE-EMERGENT HERBICIDE IN MULCHED AREAS			
PL-9	WOOD MULCH DEPTH			

NOTES:
- THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
- WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE OWNER'S REPRESENTATIVE IS NOTIFIED OF THESE MILESTONE WITNESS POINTS.

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE PLANTING DESIGN PLAN.

CATO M. HIESKETT, RLA 6932

CONTRACTOR SPECIAL PLANTING NOTES:

1. *AN ASSESSMENT AND VALUATION OF ONSITE EXISTING TREES SCHEDULED TO REMAIN IN THE AREA OF WORK SHALL BE PERFORMED BY THE CONTRACTOR'S ARBORIST PRIOR TO THE START OF CONSTRUCTION OPERATIONS PER THE 'EXISTING LANDSCAPE PROTECTION' SPECIFICATION.*
2. *THE CONTRACTOR SHALL RIP, CONDITION AND TILL THE ENTIRE EXTENT OF ALL PLANTING AREAS RECEIVING NEW PLANTS PER THE PLANTING NOTES AND 'LANDSCAPE PLANTING' SPECIFICATIONS.*
3. *ALL EXISTING MIXED PLANTING AREAS RECEIVING NEW WOOD MULCH SHALL BE MANUALLY TILLED TO A MINIMUM DEPTH OF 4 INCHES, CLODS BROKEN UP TO A MAXIMUM 1 INCH DIAMETER, FINISH GRADED TO 2 INCHES BELOW ADJACENT SURFACES AND UTILITY/IRRIGATION BOXES WITHIN 1/2 INCHES OF THE HARDSCAPE EDGE, AND A PRE-EMERGENT HERBICIDE APPLIED PRIOR TO WOOD MULCH INSTALLATION. PROTECT EXISTING PLANTING DURING WOOD MULCH PREPARATION AND INSTALLATION.*
4. *THE ORIGINAL PLANTING OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.*
5. *THE AS-BUILT RECORD DRAWING SET AND MAINTENANCE MANUAL SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.*

SEE SHEET L202 FOR PLANTING NOTES AND DETAILS

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

Know what's below. Call before you dig.

AGENCY APPROVAL DSA#

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

196
185 CLARA STREET, SUITE 101A
SAN FRANCISCO, CA 94107
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CLOVIS, CA 93612
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LANDSCAPE ENGINEER
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ELECTRICAL ENGINEER
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SAN RAMON, CA 94582
TE (913)961-1658

CONSULTANT STAMP

REGISTERED LANDSCAPE ARCHITECT
CATO M. HIESKETT
No. 6932
RENEWAL 08/31/2026
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

PLANTING PLAN

DRAWN BY: CMH JOB NUMBER: 24056

SHEET NO.

L201

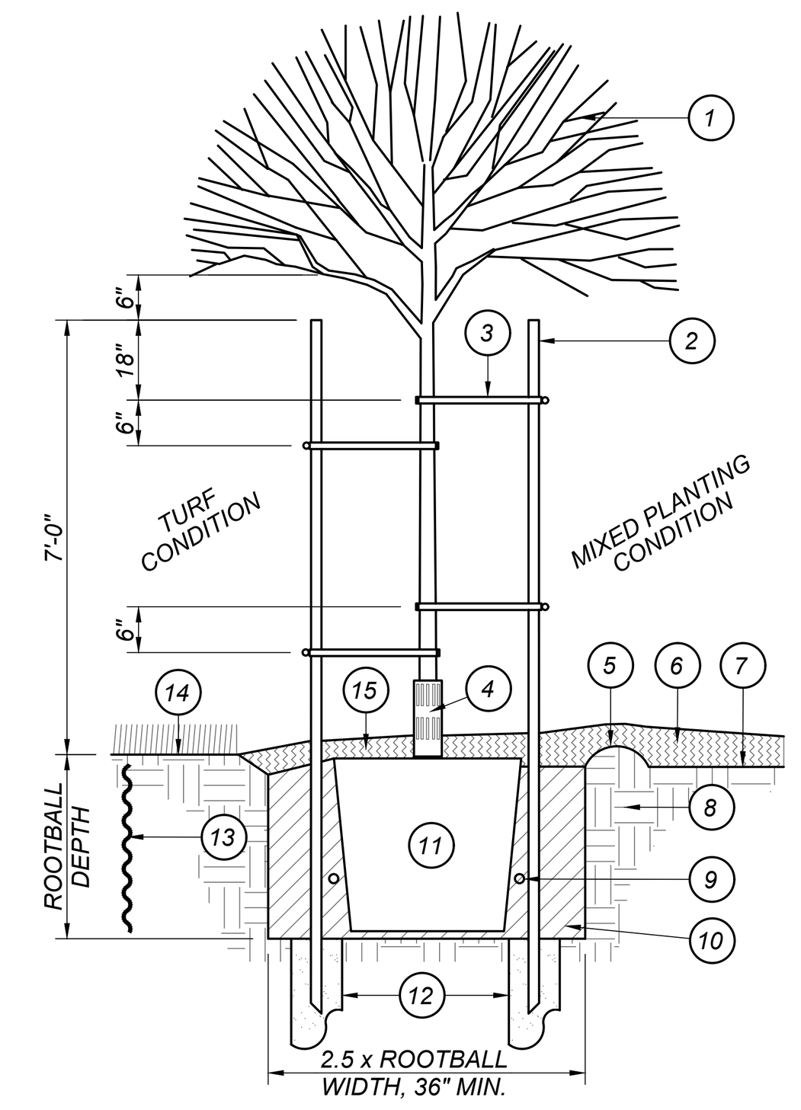
DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 2/06/2025 4:51:21PM PLOT BY: CHESKETT FILE LOCATION: P:\224-0178\Site\Production\Drawings\224178s01.dwg

PLANTING NOTES:

1. IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TREES OR PLANTS, GRADE DIFFERENCES OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.
2. ANY EXISTING PLANTING SHOWN ON THE PLAN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTING PLANTING AT THE SITE PRIOR TO STARTING WORK. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROTECT THE EXISTING PLANTING ADJACENT TO THE WORK FROM DAMAGE OR DISTRESS.
3. ALL TREES AND SHRUBS SHALL BE OF CLASS A QUALITY WITHOUT PESTS, DISEASE OR DAMAGE, SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT GIRDLING ROOTS OR EXCESSIVE TOP GROWTH, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1).
4. NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND TREE AND/OR SHRUB PLANTING FOR APPROVAL OF THE PLANT LAYOUT AND PLANT QUALITY. PLANT LOCATIONS SHALL AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, PLANTINGS OR UTILITIES, LIGHT POLES WHILE MEETING THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS, PLANTED TREES AND/OR SHRUBS.
5. PLANT QUANTITIES ARE PROVIDED FOR BIDDING CONVENIENCE ONLY. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREA SHOWN ON THE PLAN AT THE SPECIFIED TRIANGULAR SPACING.
6. WHERE GROUND COVER PLANTS ARE SHOWN AT A SPECIFIED SPACING, THE GROUND COVER PLANTING CONTINUES UNDERNEATH THE TALLER SHRUBS AND TREES AS SHOWN IN THE PLANTING DETAILS. DO NOT PLANT GROUND COVER IN SHRUB OR TREE WATERING BASINS.
7. ALL NEW TREES LOCATED WITHIN 8 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED. UNLESS OTHERWISE SPECIFIED, INSTALL A 12 FOOT LONG X 24 INCH DEEP LINEAR POLYETHYLENE BARRIER VESPRO OR EQUAL AT THE EDGE OF PAVEMENT/STRUCTURE, CENTERED ON THE TREE TRUNK AS SHOWN IN THE PLANTING DETAILS.
8. REMOVE NURSERY STAKES FROM TREES AFTER TREE STAKING OR GUYING AS SHOWN IN THE DETAILS.
9. INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM 6 FOOT DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.
10. THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE LANDSCAPE ARCHITECT. TREES HEADED BACK WITHOUT INTACT SCAFFOLDING BRANCH STRUCTURE OR IN ROOT-BOUND CONTAINERS SHALL BE REJECTED.
11. SUBMIT REPRESENTATIVE SOIL SAMPLES OF NATIVE AND PROPOSED IMPORT, IF NEEDED, PLANTING TOPSOIL TO A SOIL LAB FOR HORTICULTURAL ANALYSES AND FERTILITY RECOMMENDATIONS. AMEND SOIL ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT AND LANDSCAPE ARCHITECT'S DIRECTION. SEE THE LANDSCAPE PLANTING SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
12. PROVIDE SANDY LOAM TOPSOIL PER SPECIFICATION IN ALL RAISED PLANTERS AND WHERE IMPORT TOPSOIL IS REQUIRED. NATIVE SITE SOIL MAY BE USED IN RAISED PLANTERS ONLY WHEN THE NATIVE SITE SOIL MEETS THE CRITERIA FOR SANDY LOAM TOPSOIL AS DETERMINED BY A SOIL ANALYSIS.
13. PRIOR TO SOIL CONDITIONING, RIP IN TWO DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING, ALL TURFGRASS AREAS TO A 12 INCH DEPTH, AND SHRUB/GROUND COVER AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP SIX (6) INCHES PER THE LANDSCAPE PLANTING SPECIFICATIONS. COMPOST RATE SHALL BE A MINIMUM OF FOUR (4) CUBIC YARDS PER 1,000 SQUARE FEET OR AS MODIFIED BY THE LANDSCAPE ARCHITECT BASED ON THE SOUL FERTILITY ANALYSIS.
14. UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS 1 INCH DIAMETER AND GREATER FROM THE TOP TWO INCHES OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.04 FOOT TOLERANCE. FINISH GRADE IN MULCHED AREAS SHALL BE STRAIGHT GRADES WITHOUT HUMPS OR DEPRESSIONS AND SHALL BE 2 INCHES BELOW ADJACENT HARDSCAPE, INLETS OR UTILITY BOX COLLARS. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.
15. OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS OPERATIONAL AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.
16. AFTER PLANTING IS COMPLETED AND JUST PRIOR TO MULCH INSTALLATION, APPLY A BROAD SPECTRUM PRE-EMERGENT HERBICIDE TO ALL NON-TURFGRASS PLANTING AREAS PER THE MANUFACTURER'S SPECIFICATIONS.
17. WHERE MULCH IS TO BE INSTALLED IN AN EXISTING PLANTING AREA, BREAKUP/TILL THE EXISTING SOIL TO A MINIMUM 6 INCH DEPTH PER SPECS, AND ADJUST FINISH GRADE ADJACENT TO HARDSCAPE AND DRAINAGE ELEMENTS TO PROVIDE A 2 INCH DEPTH THAT TRANSITIONS TO THE EXISTING GRADE OVER 1 TO 2 FEET.
18. INSTALL A MINIMUM 3 INCH DEPTH OF CHIPPED WALK-ON WOOD MULCH IN ALL PLANTING AREAS AND TREE WATERING BASINS EXCEPT FOR TURFGRASS AREAS, SLOPES 3H:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE PLAN. AREAS PLANTED WITH FLATS SHALL HAVE A MINIMUM MULCH DEPTH OF 2 INCHES. INSTALL A MINIMUM 3 FOOT RADIUS OF 3 INCH DEEP WOOD MULCH AT THE BASE OF ALL TREES IN NEW TURFGRASS AREAS.
19. ALL EXISTING PLANTS AND/OR TURFGRASS SHOWN TO REMAIN AND DAMAGED OR REMOVED BY CONSTRUCTION OPERATIONS AND/OR UTILITY/IRRIGATION/DRAINAGE LINES SHALL BE REPLACED WITH PLANTS THAT MATCH AS CLOSELY AS POSSIBLE TO THE EXISTING PLANT SPECIES, VARIETY AND SIZE. THE REPLACEMENT TURFGRASS SOD VARIETY SHALL BE THE SAME AS SHOWN IN THE PLANTING LEGEND AS IF FOR NEW WORK, OR SHALL MATCH THE EXISTING TURFGRASS VARIETY WHERE EXISTING. TILL SOIL CONDITIONING MATERIALS INTO THE TOP 6 INCHES OF THE SOIL OVER THE AREA OF REPAIR/REPLACEMENT AS IF FOR NEW WORK. ADJUST FINISH GRADE SO NEW TURFGRASS SOD ABUTS FLUSH TO EXISTING SOD GRADE. THE REPLACEMENT PLANTS AND/OR TURFGRASS SOD SHALL BE MAINTAINED AS PART OF THE ORIGINAL SCOPE OF WORK. THE REPAIR OR REPLACEMENT WORK SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.
20. CONTRACTOR SHALL MAINTAIN THE NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE.



LEGEND:

1. TREE PER PLANTING PLAN.
2. 2" X 10' LODGEPOLE PINE STAKE. DO NOT DRIVE STAKE THROUGH ROOTBALL. CUT OFF TOP SECTION DAMAGED BY HAMMERING. TOP OF STAKE IS 6" CLEAR OF LOWEST TREE BRANCHES.
3. FLEXIBLE VINYL TREE TIE, 4 / TREE (V.I.T. OR APPROVED EQUAL.)
4. TREE TRUNK PROTECTOR (GRAY) WHERE TREE IS IN TURF AREA.
5. 4" HIGH WATERING BERM.
6. ADJACENT PLANTING AREA WITH MULCH WHERE OCCURS.
7. FINISH GRADE.
8. SITE SOIL.
9. PLANT FERTILIZER TABLET. SEE SPECIFICATIONS.
10. AMENDED BACKFILL. SEE SPECIFICATIONS.
11. ROOTBALL. SET TOP OF ROOTBALL 2" ABOVE FINISH GRADE.
12. DRAINAGE SUMP: 12" DIA. PER DRAINAGE SUMP NOTES. FILL WITH CONCRETE SAND PER SSPWC 200-1.5.5.
13. ROOT CONTROL BARRIER WHERE REQUIRED. SEE GENERAL PLANTING NOTES AND DETAIL [D/L202].
14. ADJACENT TURFGRASS PLANTING WHERE OCCURS.
15. MULCH, MINIMUM 3" DEPTH. SEE GENERAL PLANTING NOTE 17.

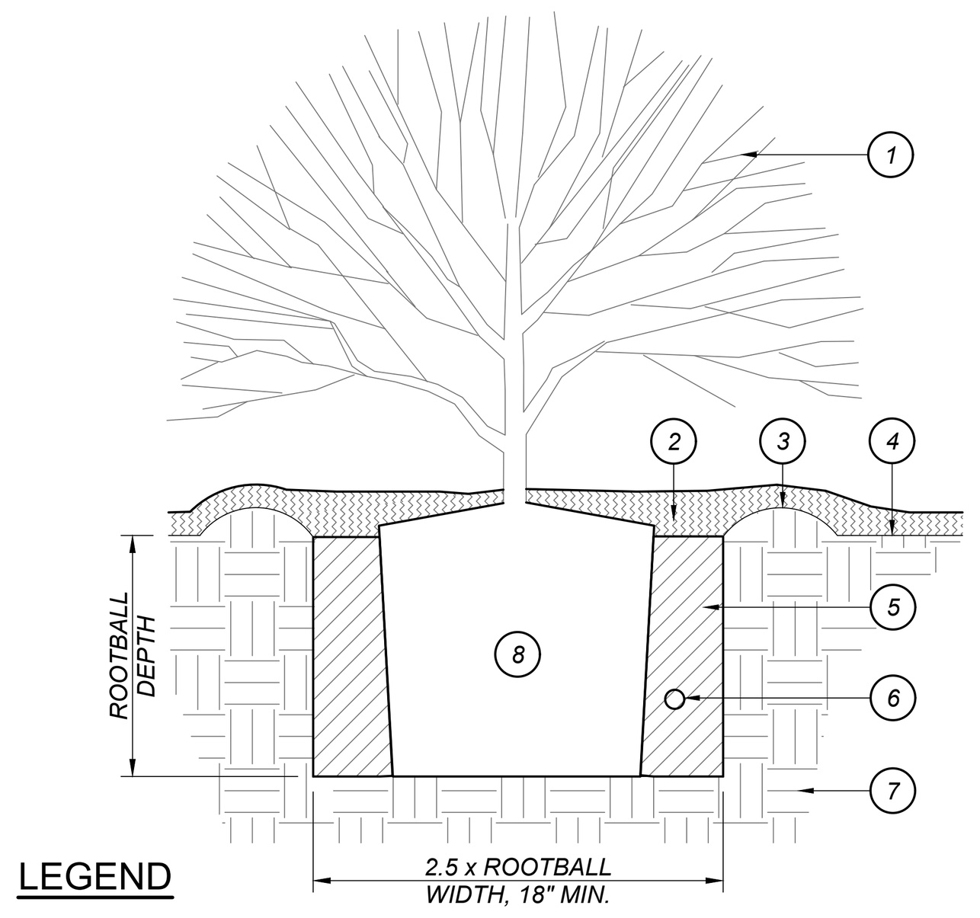
DRAINAGE SUMP NOTES:

A. DRAINAGE SUMPS SHALL PENETRATE THROUGH AND BEYOND ANY UNDERLYING PAVEMENT OR HARDPAN SOIL STRATUM, AND SUCH PAVEMENT OR HARDPAN MATERIAL SHALL BE REMOVED FROM THE SUMP HOLES.

B. THE SUMP HOLE SHALL BE DRILLED TO MINIMUM DEPTH OF TEN (10) FEET, UNLESS VISUAL EVIDENCE OF A SUBSURFACE SAND AND/OR GRAVEL DRAINAGE STRATUM IS APPARENT AT A LESSER DEPTH. THE SUMP HOLES SHALL EXTEND INTO THE DRAINAGE STRATUM A MINIMUM OF ONE (1) FOOT.

A / L202 DOUBLE STAKE TREE PLANTING

NOT TO SCALE

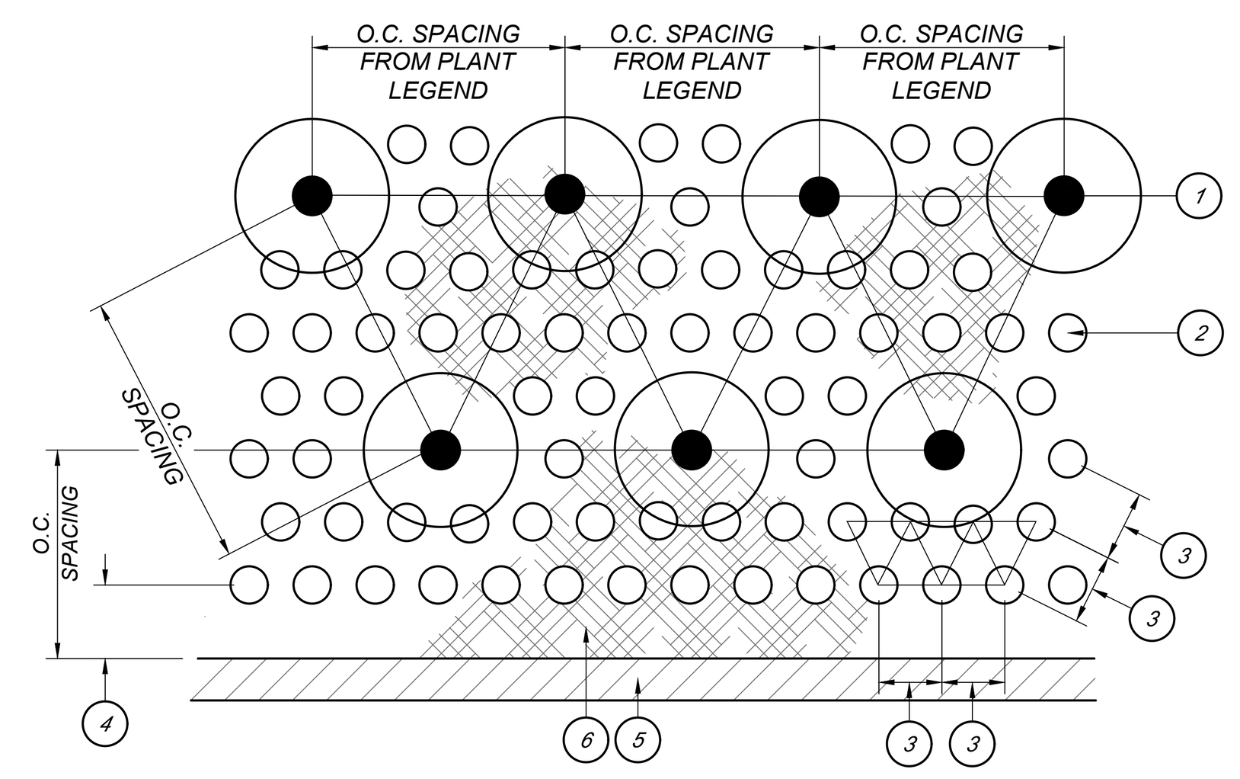


LEGEND

1. SHRUB.
2. WOOD MULCH LAYER.
3. 3" HIGH WATERING BASIN.
4. FINISH GRADE.
5. AMENDED BACKFILL. SEE SPECIFICATIONS.
6. FERTILIZER PACKET. SEE SPECIFICATIONS.
7. SITE SOIL.
8. ROOTBALL. SET TOP OF ROOTBALL 1" ABOVE FINISH GRADE.

B / L202 SHRUB PLANTING

NOT TO SCALE

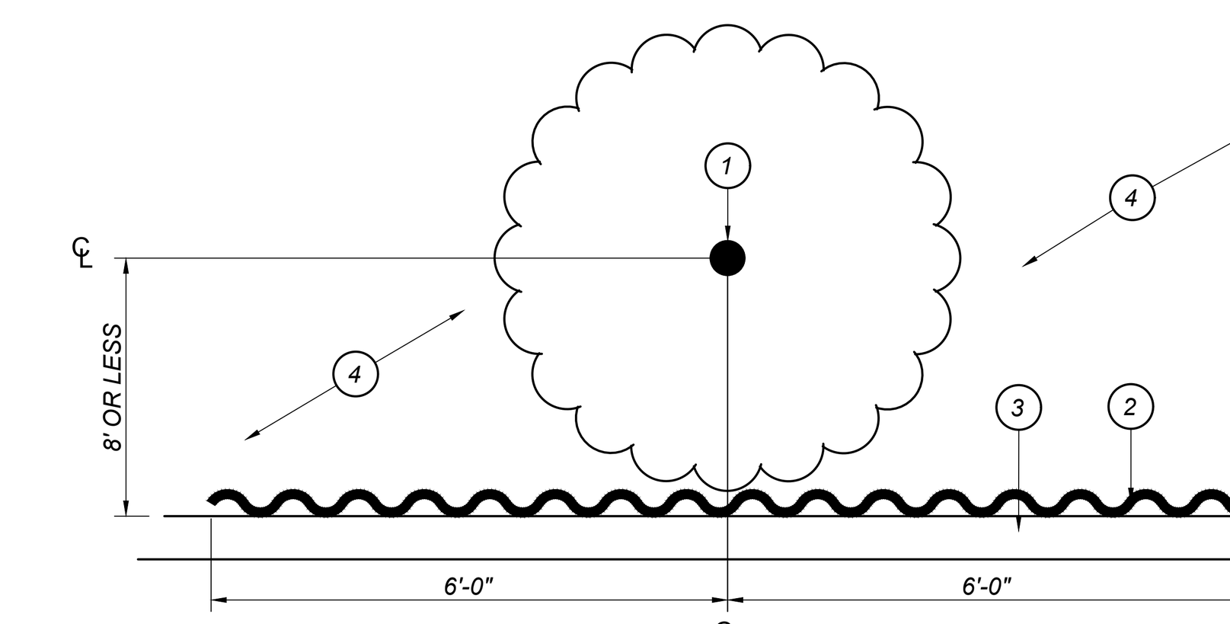


LEGEND:

1. CONTAINER SHRUB OR GROUND COVER IN TRIANGULATED ROWS, SEE SHRUB PLANTING PER DETAIL [B/L202].
2. GROUND COVER FLATS OR LINERS - TRIANGULATED ROWS.
3. SPACE PER PLANT LEGEND. OMIT PLANTS WHERE IN CONFLICT WITH SHRUBS OR TREE WATERING BASINS.
4. SPACING DISTANCE FROM PLANT LEGEND.
5. HARDSCAPE ELEMENT: CURB, WALK, ETC.
6. MULCH PER SPECIFICATIONS.

C / L202 SHRUB AND GROUND COVER SPACING

NOT TO SCALE

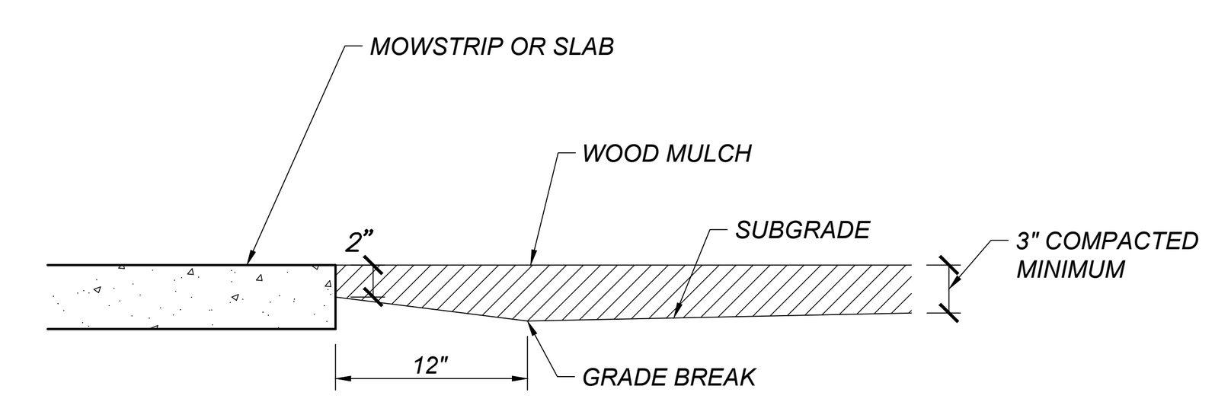


LEGEND

1. TREE TRUNK.
2. 12 LF OF 24"-DEEP ROOT CONTROL BARRIER: DEEP ROOT UB24-2 OR EQUIVALENT. CENTER BARRIER ON TRUNK OF TREE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. HARDSCAPE ELEMENT: CURB, SIDEWALK, WALL, ETC.
4. PLANTING AREA.
5. INSTALL ROOT CONTROL BARRIER ON ALL SIDES OF THE PLANTING AREA WHEN SURROUNDED BY HARDSCAPE WITHIN 8' OF THE TREE TRUNK.

D / L202 ROOT CONTROL BARRIER

NOT TO SCALE



E / L202 MULCH DETAIL

NOT TO SCALE

SEE SHEET L201 FOR PLANTING PLAN

AGENCY APPROVAL DSA#

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

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LICENSED LANDSCAPE ARCHITECT · STATE OF CALIFORNIA · 6932
Signature · 7/31/25 Renewal Date · 02/10/2025 Date

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
PLANTING DETAILS

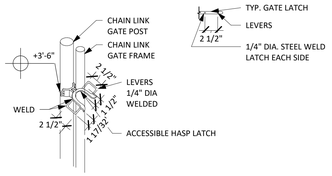
DRAWN BY: CMH JOB NUMBER: 24056

SHEET NO.
L202

DATE: FEBRUARY 10, 2025

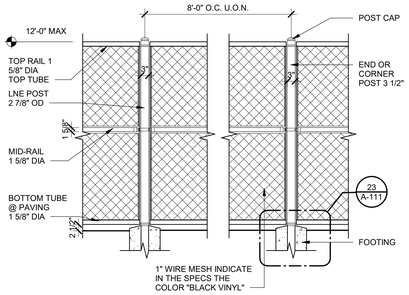
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 2/06/2025 4:51:30PM PLOT BY: CHESKETT FILE LOCATION: P:\224-0178\Site\ProductionDrawings\224178ladt01.dwg



NOTE: PER CBC 11B-309.4, THE ACCESSIBLE HASP SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE OPERABLE FORCE OF THE HASP SHALL BE 5 LBS MAX.

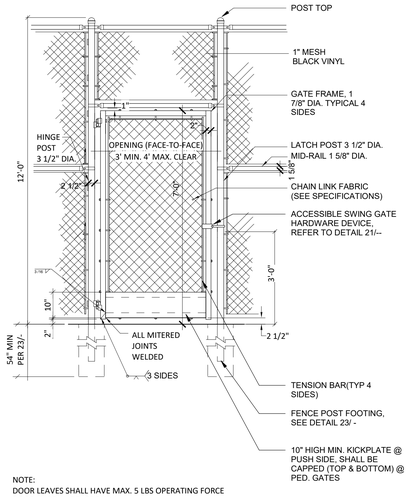
ACCESSIBLE SWING GATE HARDWARE | 1" = 1'-0" | 21



CHAIN LINK FENCE ELEVATION | 1/2" = 1'-0" | 22

NOTE: THE AREA OF THE STEEL POST IS GREATER THAN 0.5% OF THE AREA OF CONCRETE PIER THEREFORE MEETS THE REQUIREMENTS OF CBC 1810A.2.4.1 EXCEPTION #2 AND THEREFORE FURTHER STEEL REINFORCMENT DOES NOT NEED TO BE ADDED

FENCE POST FOOTING | 1 1/2" = 1'-0" | 23

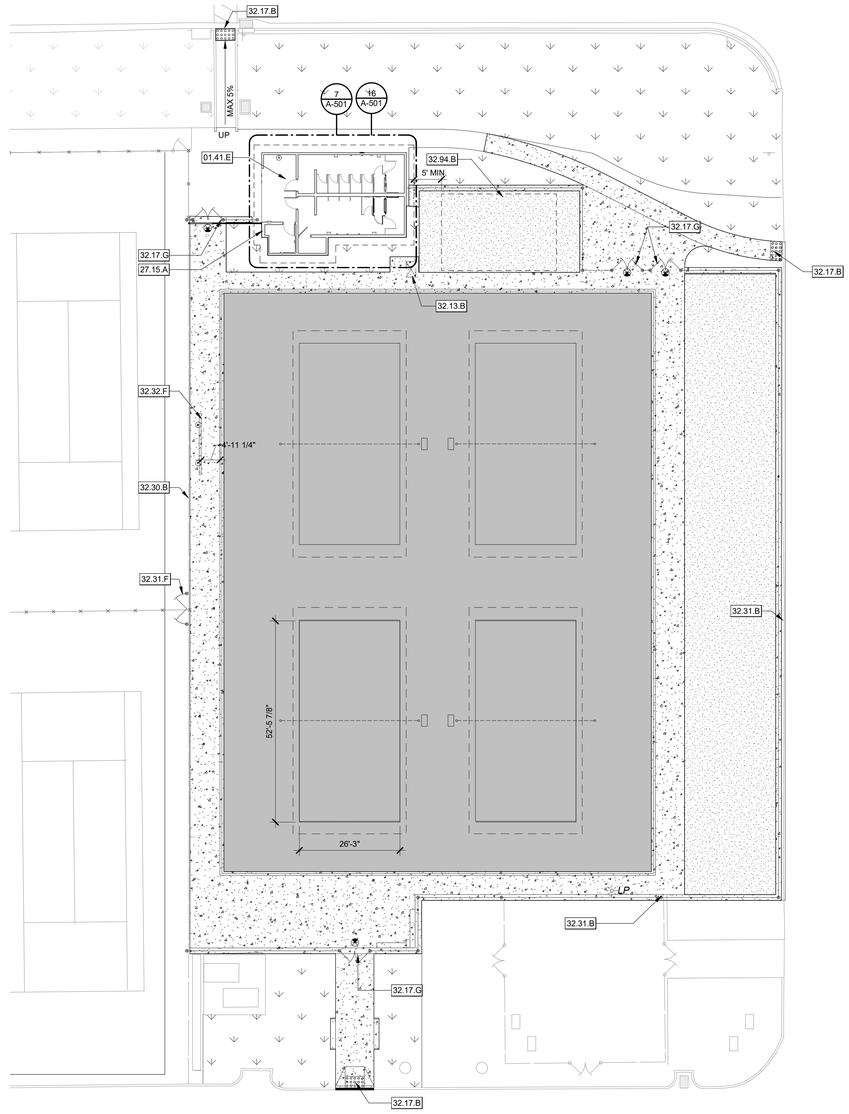


NOTE:
DOOR LEAVES SHALL HAVE MAX. 5 LBS OPERATING FORCE
DOOR HARDWARE: GROUP 1

CHAIN LINK FENCE - SINGLE DOOR | 1/2" = 1'-0" | 12

NOTE:
DOOR LEAVES SHALL HAVE MAX. 5 LBS OPERATING FORCE
DOOR HARDWARE: GROUP 2

CHAIN LINK FENCE-DOUBLE DOOR | 1/2" = 1'-0" | 14



PROJECT NORTH

ENLARGED SITE PLAN | 1/16" = 1'-0" | 4

KEYNOTES

01.41.E	(E) ACCESSIBLE MEN & WOMEN RESTROOM, DSA#02-106610, REFER TO SHEET A-501
27.15.A	(E) WALL MOUNTED JUNCTION BOX "FA" FOR FIRE ALARM, PER DSA # 02-106610
32.13.B	(N) HIGH-LOW DRINKING FOUNTAIN, PER F/C702
32.17.B	(N) 36" WIDE TRUNCATED DOMES BAND, PER H/C701
32.17.G	(N) 8' WIDE DOUBLE GATES, PER DETAIL 14/ -
32.30.B	(E) 12'-0" TALL CHAIN LINK FENCE
32.31.B	(N) 12'-0" TALL CHAIN LINK FENCE, PER DETAIL 22,23/ -
32.31.F	(N) SINGLE SWING GATE, PER DETAIL 12/ -
32.32.F	(N) SCOREBOARD, REFER TO PC DRAWINGS
32.94.B	(N) 20'X30' SHADE STRUCTURE, REFER TO PC DRAWINGS

LEGEND - ENLARGED SITE PLAN

- (N) CONCRETE PAVING, REFER TO CIVIL DRAWINGS FOR DETAILING
- (N) SYNTHETIC TURF, REFER TO CIVIL DRAWINGS FOR DETAILING
- (N) COURT SAND, REFER TO CIVIL DRAWINGS FOR DETAILING
- (N) LANDSCAPING, REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION
- (E) LANDSCAPING
- (N) EGRESS SIGN

AGENCY APPROVAL DSA# 02-122861

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ARCHITECT STAMP | CONSULTANT STAMP

LICENSED ARCHITECT FRANCIS CHAN C-7519 REN. 11-30-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
SITE PLAN & DETAILS

DRAWN BY: XX JOB NUMBER: 24056

SHEET NO.
A-111

DATE: FEBRUARY 14, 2025

DSA BACKCHECK

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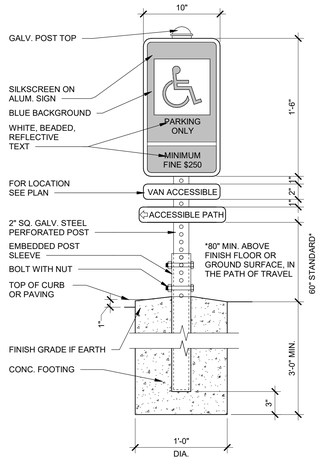
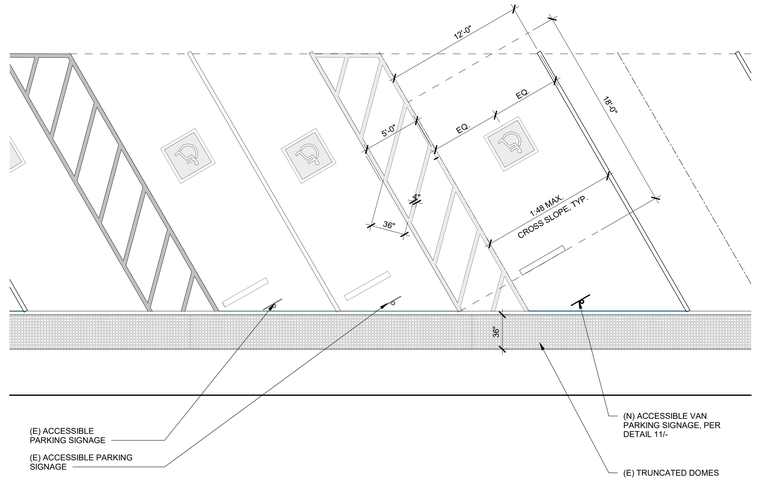


ACC. PARKING LOT SIGNAGE

1 1/2" = 1'-0" | 11



ADA PARKING LOT

3/16" = 1'-0" | 2

AGENCY APPROVAL DSA# 02-122861

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SHEET TITLE
SITE PLAN & DETAILS

DRAWN BY: XX JOB NUMBER: 24056

SHEET NO.
A-112

DATE: FEBRUARY 14, 2025

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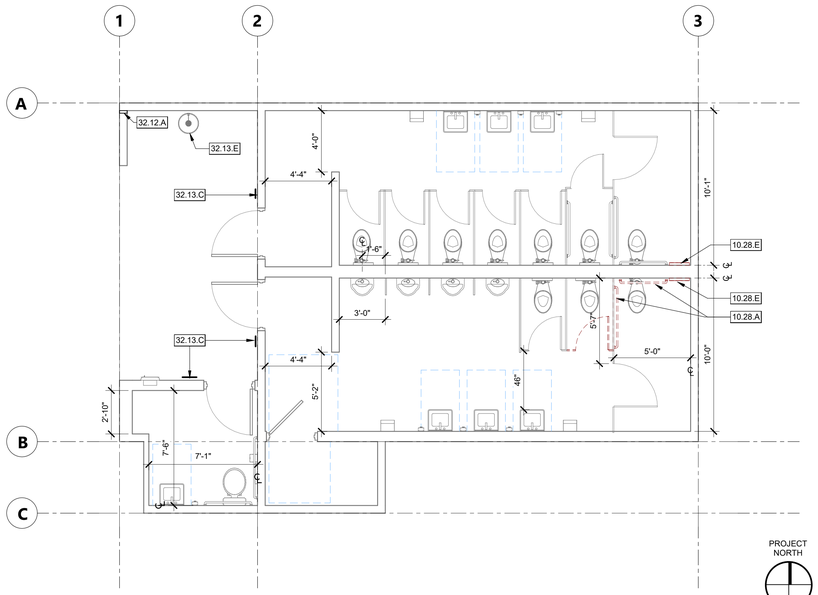
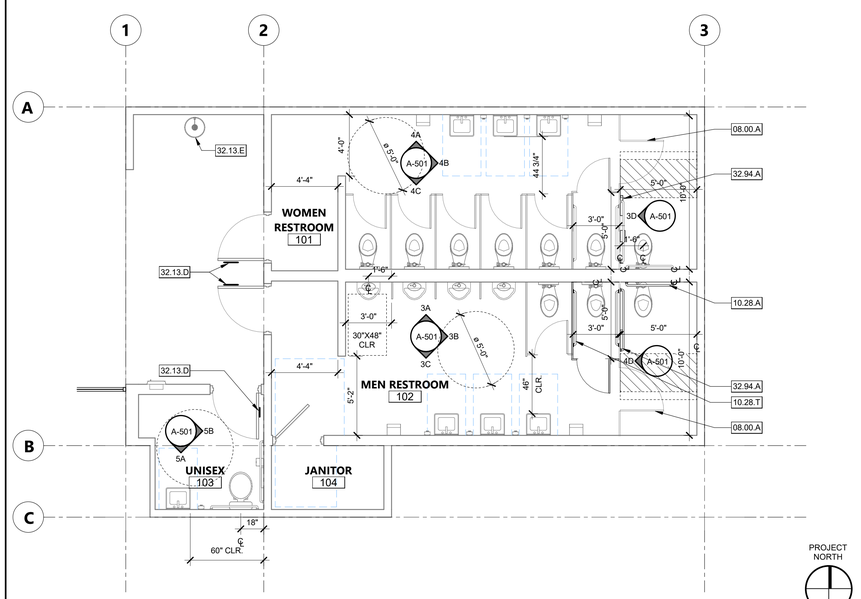


(E) RESTROOM DEMO | 1/4" = 1'-0" | 16



(E) RESTROOM | 1/4" = 1'-0" | 7

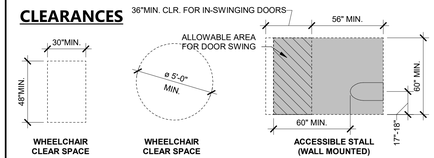
KEYNOTES

08.00.A	EXISTING ACCESSIBLE STALL DOOR, 34" CLEAR WHEN DOOR OPEN 90 DEG.
10.28.A	REINSTALL GRAB BAR, LOCATION PER 6/-
10.28.B	REMOVE AND SALVAGE (E) GRAB BAR
10.28.C	(E) MIRROR
10.28.E	REMOVE AND SALVAGE (E) TOILET SEAT COVER DISPENSER
10.28.M	(E) SURFACE MOUNT TOILET SEAT COVER DISPENSER
10.28.N	(E) SURFACE MOUNT SOAP DISPENSER
10.28.O	(E) SURFACE MOUNT PAPER TOWEL DISPENSER
10.28.T	(N) GRAB BAR PER 5/A-501
10.28.U	(E) SANITARY NAPKIN DISPENSER
32.12.A	(E) KNOX BOX, PROTECT IN PLACE
32.13.C	(E) TACTILE ID SIGN
32.13.D	(N)GEOMETRIC DOOR SYMBOL, REFER TO 8/A-923
32.13.E	(E) TO REMAIN, ACCESSIBLE DRINKING FOUNTAIN
32.94.A	REINSTALL TOILET SEAT COVER DISPENSER, REFER TO ELEVATION DRAWING

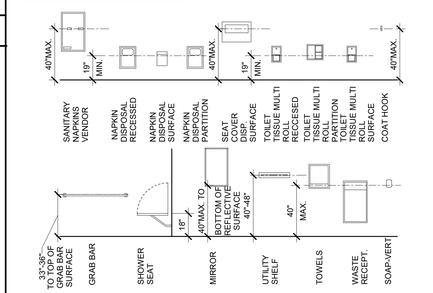
LEGEND - RESTROOM GENERAL NOTES

1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.
2. ALL ACCESSORIES SHALL BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR.
3. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS.
4. ALL DIMENSIONS FOR ACCESS COMPLIANCE ARE TO FACE OF FINISH.
5. (E) LAVATORIES ARE EQUIPED WITH LAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY AND DRAIN PIPING WITH FLIP TOP AT VALVE TO ALLOW SERVICE WITHOUT REMOVING COVERING.
6. THE SPACE BETWEEN WALL AND GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN.

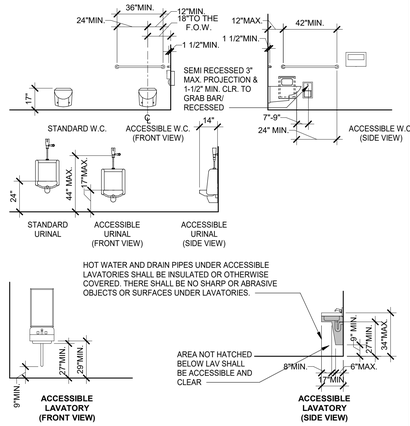
CLEARANCES

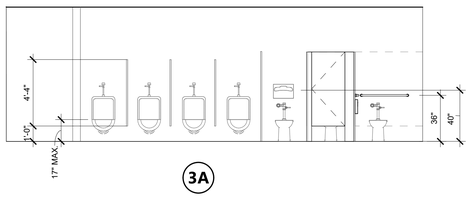


MOUNTING HEIGHTS



TOILET FIXTURE HEIGHTS





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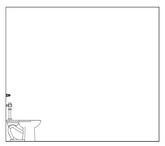

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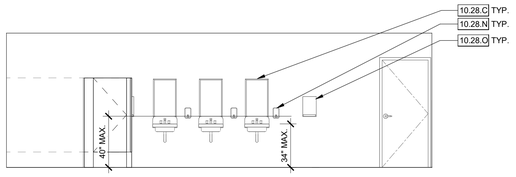

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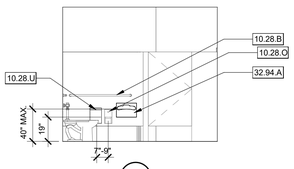
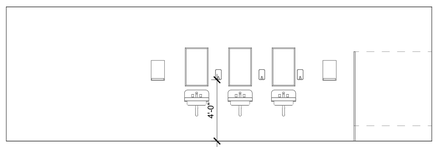


3D

MEN RESTROOM - 101 | 1/4" = 1'-0" | 8



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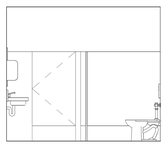

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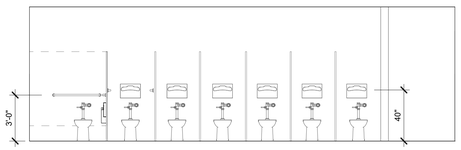

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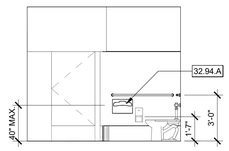


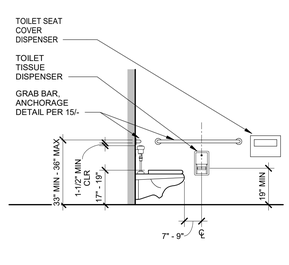
4D

WOMEN RESTROOM - 102 | 1/4" = 1'-0" | 9

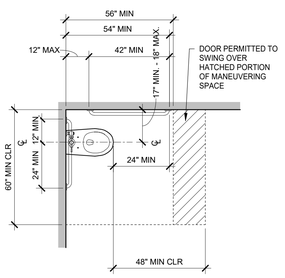
11B-604.1 GENERAL WATER CLOSETS AND TOILET COMPARTMENTS SHALL COMPLY WITH SECTIONS 11B-604.2 THROUGH 11B-604.8.

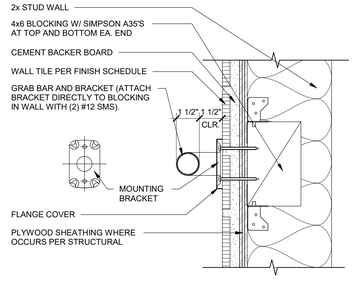
11B-603.2.3 DOOR SWING DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS TO ACCESSIBLE WATER CLOSET COMPARTMENTS SHALL BE PERMITTED TO ENCROACH INTO THE TURNING SPACE WITHOUT LIMITATION. OTHER THAN DOORS TO ACCESSIBLE WATER CLOSET COMPARTMENTS, A DOOR, IN ANY POSITION, SHALL BE PERMITTED TO ENCROACH INTO THE TURNING SPACE BY 12 INCHES (305 MM) MAXIMUM.

11B-604.5 GRAB BARS GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH SECTION 11B-609. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND ON THE REAR WALL

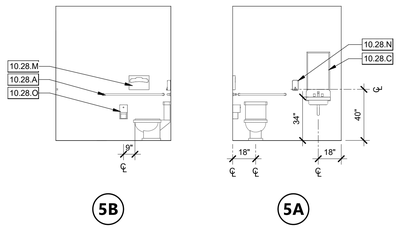


TYP. ACCESSIBLE WATER CLOSET | N.T.S. | 20



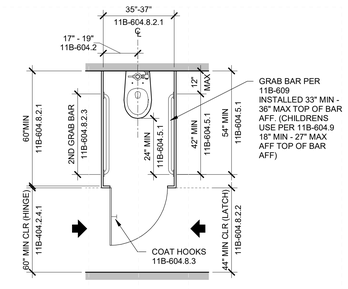


GRAB BAR ANCHORAGE DETAIL | 3" = 1'-0" | 15



5B 5A

UNISEX RESTROOM - 103 | 1/4" = 1'-0" | 10



AMBULATORY WATER CLOSET | 3/8" = 1'-0" | 5

AGENCY APPROVAL DSA# 02-122861

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

196

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ELECTRICAL ENGINEER
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TE (913)961-1658

ARCHITECT STAMP | CONSULTANT STAMP

LICENSED ARCHITECT FRANCIS CHAN C-7519 REN. 11-30-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE

SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

ENLARGED RESTROOM

DRAWN BY: XX JOB NUMBER: 24056

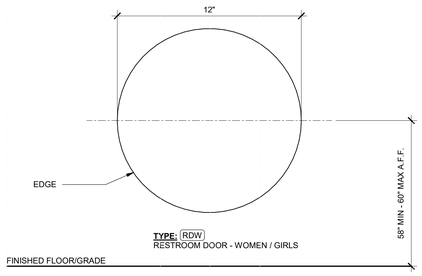
SHEET NO.

A-501

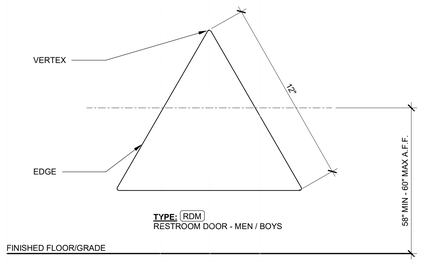
DATE: FEBRUARY 14, 2025

DSA BACKCHECK

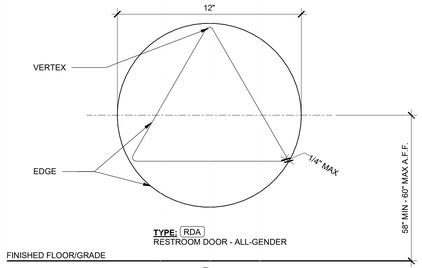
DATE PLOTTED: 5/13/2025 3:24:34 PM FILE LOCATION: C:\Users\rmarlin\Documents\24056 - Solano CC Sand Volleyball Complex_rmarlinN7Z37.rvt



TYPE: RDW
RESTROOM DOOR - WOMEN / GIRLS



TYPE: RDM
RESTROOM DOOR - MEN / BOYS



TYPE: RDA
RESTROOM DOOR - ALL-GENDER

NOTE 1: FOR LOCATION AND MOUNTING SEE (2 / A-923)

NOTE 2: SECOND SURFACE SCREENED COPY ON MATTE CLEAR ACRYLIC

NOTE 3: COLOR TBD. MUST HAVE AT LEAST 70% CONTRAST TO DOOR COLOR

NOTE 4: EDGES SHALL BE EASED OR ROUNDED AT 1/16" MIN OR CHAMFERED AT 1/8" MAX.

NOTE 5: VERTICES ON TRIANGLES SHALL BE RADIUSED BETWEEN 1/8" MIN AND 1/4" MAX.

NOTE 6: CIRCLE & TRIANGLE SYMBOL SHALL BE 1/4" THICK.

NOTE 7: THE INSCRIBED TRIANGLE SHALL BE 1/4" THICK CONTRASTING COLOR ON A 1/4" THICK CIRCLE (1/2" TOTAL THICKNESS) THAT IS IN CONTRAST WITH THE DOOR COLOR (NOTE 3)

SIGNAGE - RESTROOM DOORS

3" = 1'-0" | 8

1. PROVIDE SIGNS WHERE INDICATED ON 1/A-501.
2. RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE.

   DEPTH: RAISED CHARACTERS SHALL BE 1/32INCH MINIMUM ABOVE THEIR BACKGROUND
   CASE: CHARACTERS SHALL BE UPPER CASE
   STYLE: CHARACTERS SHALL BE SANS SERIF
   PROPORTIONS: THE WIDTH OF LETTER "O" SHALL BE 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF LETTER "I"
   HEIGHT: 5/8 INCH MINIMUM AND 2 INCHES MAXIUM

3. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTION 11B-703.3.

   DIMENSIONS: BASE DOT DIAMTER 0.059 INCHES TO 0.063 INCHES
   SPACING IN EACH CELL AT 0.10 INCHES ON CENTER
   SPACING BETWEEN CELLS TO BE 0.30 INCHES
   DOT HEIGHT TO BE BETWEEN 0.025 INCHES TO 0.037 INCHES WITH DOMED TOPS
   POSITION: BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT

4. CHARACTERS AND SYMBOLS SHALL BE LIGHT-ON-DARK OR DARK-ON-LIGHT CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND.
5. FOR ALL SIGNS MOUNTED ON GLAZING COORDINATE OPPOSITE SIDE SIGN IN THE SAME LOCATION. WHERE NO SIGN IS SPECIFIED ON OPPOSITE SIDE, PROVIDE A BLANK SIGN TO MATCH PER (3 / A-923)

SIGNAGE - GENERAL NOTES

12" = 1'-0" | 1

SIGNAGE - MOUNTING LOCATIONS

1/4" = 1'-0" | 2

ATTACHMENT NOTES:

1. AT SMOOTH SURFACES SUCH AS METAL, GYPSUM BOARD AND GLASS, ATTACH WITH D.F. TAPE AND SILICONE AS REQUIRED.
2. AT ROUGH SURFACES SUCH AS STUCCO, CONCRETE AND CMU ATTACH USING VANDAL RESISTANT FASTENERS.

SIGNAGE - MOUNTING

3" = 1'-0" | 3

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4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE
SIGNAGE DETAILS

DRAWN BY: XX JOB NUMBER: 24056

SHEET NO.
A-923

DATE: FEBRUARY 14, 2025

DSA BACKCHECK

ELECTRICAL COMPONENT ANCHORAGE NOTES

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL AND TELECOM UTILITIES. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4'-0" OR GREATER ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT, IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE ATTACHMENTS OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

1. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR HUNG FROM A WALL.

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTES

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. HCAi OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTIONS SYSTEMS (E):

- [X] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- [ ] OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAi (OSHPD) PRE-APPROVAL (OPM #) #________________.

NOTE:
1. THERE ARE NO LARGE PIECES OF EQUIPMENT WEIGHING OVER 20LBS AS PART OF THIS SCOPE OF WORK, SO ANCHORAGE DETAILS AND CALCULATIONS SHALL NOT BE REQUIRED.

ABBREVIATIONS

A	AMPERE
ABV	ABOVE
AF	AMPERE FRAME, AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ARCH	ARCHITECTURAL
AS	AMPERE SWITCH
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CBC	CALIFORNIA BUILDING CODE
CD	CANDELA
CEC	CALIFORNIA ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CSFM	CALIFORNIA STATE FIRE MARSHALL
CTR	CENTER
(D)	DEMOLISH
DET	DETAIL
DIM	DIMENSION
DIST	DISTRIBUTION
DP	DISTRIBUTION PANEL
DWG	DRAWING
(E)	EXISTING
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE RESISTOR
EQP	EQUIPMENT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
(F)	FUTURE
FIN	FINISH
FLR	FLOOR
G, GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HGT	HEIGHT
HP	HORSEPOWER
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
INFO	INFORMATION
JB	JUNCTION BOX
KAIC	KILOAMPERE INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
KCMIL	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NIEC	NOT IN ELECTRICAL CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NUM, #	NUMBER
OC	ON CENTER
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
(R)	EXISTING TO BE RELOCATED
REQD	REQUIRED
REQT(S)	REQUIREMENT(S)
RM	ROOM
RSC	RIGID STEEL CONDUIT
SAD	SEE ARCHITECTURAL DOCUMENTS
SHT	SHEET
SPD	SURGE PROTECTIVE DEVICE
STC	SIGNAL TERMINAL CABINET
SW	SWITCH
SWBD	SWITCHBOARD
T24	CALIFORNIA ENERGY CODE
TC	TERMINAL CABINET
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT, WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER

COMMUNICATIONS HEADEND EQUIPMENT SYMBOLS

- SIGNAL TERMINAL CABINET - FLUSH MOUNTED.
- SIGNAL TERMINAL CABINET - SURFACE MOUNTED.
- COMMUNICATION BACKBOARD - 4' X 8' PLYWOOD BACKING.
- DISTRIBUTION FRAME - FLOOR MOUNTED RACKS AND WIRE MANAGEMENT
- DISTRIBUTION FRAME - WALL MOUNTED RACK

COMMUNICATIONS DEVICE SYMBOLS

POKE THRU | FLR | WALL | CLG | AT HGT

- PHONE OUTLET
- DATA OUTLET
- COMBINATION PHONE/DATA OUTLETS
- WIRELESS ACCESS POINT DATA OUTLET
- JUNCTION BOX

TYPICAL COMMUNICATIONS DEVICE NOMENCLATURE

"X" DENOTES DEVICE ID# (IF APPLICABLE)
"Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)

NOTES

1. WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON. NO DEVICES SHALL WEIGH MORE THAN 20LBS.
2. WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.
3. WHERE POWER AND LOW VOLTAGE FLOOR BOXES OR POKE THRUS ARE SHOWN IN THE SAME LOCATION, THOSE DEVICES SHALL BE LOCATED WITHIN THE SAME ENCLOSURE, UON.
4. SIZE JUNCTION BOXES AS REQ'D PER CODE. TAPE AND TAG WIRES. COORDINATE WITH EQUIPMENT AND PROVIDE FLEX CONDUIT AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT.
5. REFER TO COMMUNICATIONS DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
6. COORDINATE REQUIREMENTS AND INSTALLATION OF FURNITURE FEED CONNECTIONS WITH FURNITURE MANUFACTURER.

OWNERSHIP OF INSTRUMENTS OF SERVICE

1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT.

CODES AND STANDARDS

1. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2,TITLE 24, CCR).
2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
3. 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).
4. 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).
5. 2022 CALIFORNIA ENERGY CODE (PART 6,TITLE 24, CCR).
6. 2022 CALIFORNIA FIRE CODE (CFC) (PART 9,TITLE 24, CCR).
7. 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).
8. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).
9. 2022 NFPA 72 NATIONAL FIRE ALARM CODE.
10. 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND WARNING.
11. 2022 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.
12. ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A.
13. ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).

PANELBOARD 26LA

VOLTAGE: 208/120 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: 125 A
BUS AMPS: 125 A
AIC RATING 65000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER

PHASE A: 11160 VA 93 A
PHASE B: 10664 VA 88.9 A
PHASE C: 10004 VA 83.4 A
CONNECTED: 31828 VA 88.4 A
DEMAND: 35780 VA 99.4 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	(E) WH WOMEN'S	A	3120	WH	(E) 50/2	1	2	(E) 80/3	M	4800	A	(E) FAN COIL HEATER	
		B	3120	WH		3	4		M	4800	B		
	(E) WH MEN'S	C	3120	WH	(E) 50/2	5	6		M	4800	C		
		A	3120	WH		7	8				A	(E) SPACE	
	(E) WH UNISEX	B	1664	WH	(E) 30/2	9	10	(E)20/1	R	360	B	(E) RECEPTACLES	
		C	1664	WH		11	12	(E)20/1			C	(E) SPARE	
	(E) SPARE	A			(E)20/1	13	14				A	(E) SPACE	
	(E) SPARE	B			(E) 15/2	15	16	(E)20/1			B	(E) SPARE	
		C				17	18	(E) 15/2	G	120	C	(E) TRANSFORMER	
	(E) SPACE	A				19	20		G	120	A		
1	SCOREBOARD	B	600	G	(E)20/1	21	22	(E) 20/2	M	120	B	(E) EF-1	
1	PEDESTAL REC	C	180	R	(E)20/1	23	24		M	120	C		
	(E) SPACE	A				25	26				A	(E) SPACE	
	(E) SPACE	B				27	28				B	(E) SPACE	
	(E) SPACE	C				29	30				C	(E) SPACE	
	(E) SPACE	A				31	32				A	(E) SPACE	
	(E) SPACE	B				33	34				B	(E) SPACE	
	(E) SPACE	C				35	36				C	(E) SPACE	
	(E) SPACE	A				37	38				A	(E) SPACE	
	(E) SPARE	B			(E) 40/2	39	40				B	(E) SPACE	
		C				41	42				C	(E) SPACE	

GENERAL NOTES
a.

SCHEDULE NOTES
1. CONNECT TO (E) SPARE BREAKER.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	0.84	0.00	0.84	100%	0.84
L	LIGHTING	0.00	0.00	0.00	125%	0.00
R	RECEPTACLES	0.54	0.00	0.54	100%/50%	0.54
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	14.64	0.00	14.64	100%	14.64
LM	LARGEST MOTOR	0.00	0.00	0.00	125%	0.00
WH	WATER HEATER	15.81	0.00	15.81	125%	19.76
C	CONTINUOUS	0.00	0.00	0.00	125%	0.00

POWER DISTRIBUTION SYMBOLS (PLANS)

- PANELBOARD - FLUSH MOUNTED.
- PANELBOARD - SURFACE MOUNTED.
- DISTRIBUTION PANEL
- MOTOR
- EQUIPMENT WITHOUT MOTOR
- EQUIPMENT WITH MOTOR
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR RATED SWITCH
- GROUND ROD
- CH 2 — EQUIPMENT TAG - SEE EQUIPMENT SCHEDULE
  "CH" = EQUIPMENT TYPE
  "2" = UNIQUE IDENTIFIER

RECEPTACLE AND POWER SYMBOLS

POKE THRU | FLR | WALL | CLG | AT HGT

- SIMPLEX RECEPTACLES
- DUPLEX RECEPTACLES
- QUADRUPLEX RECEPTACLES
- GFCI DUPLEX RECEPTACLES
- GFCI QUADRUPLEX RECEPTACLES
- JUNCTION BOX

TYPICAL RECEPTACLE NOMENCLATURE

R1-3
R1-3 +Y"

"R1" DENOTES PANEL NAME
"3" DENOTES CIRCUIT NUMBER
"Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)

NOTES

1. WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON.
2. WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.
   2.1. LOCATIONS WITH OPEN FORWARD APPROACH: +44" AFF MAX
   2.2. LOCATIONS WITH PARALLEL APPROACH: +46" AFF MAX
3. WHERE POWER AND LOW VOLTAGE FLOOR BOXES OR POKE THRUS ARE SHOWN IN THE SAME LOCATION, THOSE DEVICES SHALL BE LOCATED WITHIN THE SAME ENCLOSURE, UON.

GENERAL SYMBOLS

3/E2.1, 3/- : PLAN OR DETAIL DESIGNATION
"3" DENOTES DETAIL OR PLAN NUMBER
"E2.1" DENOTES SHEET NUMBER.
"-" DENOTES SAME SHEET.

2/E1.0, 2/- : SECTION OR ELEVATION DESIGNATION
"2" DENOTES SECTION OR ELEVATION NUMBER
"E1.0" DENOTES SHEET NUMBER.
"-" DENOTES SAME SHEET.

- # — SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET
- XXXX — FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE
- XXXX — CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE

NEW VS. EXISTING

- (N) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (E) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (E) CONDUIT - TO BE REMOVED.
- (N) DEVICE OR EQUIP (EXAMPLE)
- (E) DEVICE OR EQUIP (EXAMPLE)
- (E) DEVICE OR EQUIP TO BE REMOVED (EXAMPLE)

WIRING, CONDUIT, AND RACEWAY SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - EXPOSED.
- CONDUIT - UNDERGROUND / DIRECT BURIAL.
- CONDUIT - FLEX WITH CONNECTION.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- CONDUIT - EMERGENCY POWER SYSTEM.
- CONDUIT - CAPPED.
- CONDUIT - CONTINUATION.
- IN-GRADE PULL BOX. SINGLE LINE = NON-TRAFFIC RATED. DOUBLE LINE = TRAFFIC RATED. "Y" = UNIQUE BOX IDENTIFIER, "X" = SYSTEM:
  P = POWER
  C = COMMUNICATIONS
  F = FIRE ALARM
  L = LIGHTING
  E = EV CHARGER

GENERAL NOTES

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.

B. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.

C. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.

D. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.

F. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.

G. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

H. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.

I. ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.

J. ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP. CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.

K. ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WITH TIE-BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE ALLOWED.

L. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.

M. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

N. NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.

O. THE CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING SECURITY, CATV, DATA, TELEPHONE, CLOCK, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.

P. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED, PERMANENT LABEL, TO IDENTIFY WHERE THE OPPOSING END TERMINATES.

Q. ALL EQUIPMENT VOLTAGES AND AMPACITY IS BASED ON THE INFORMATION PROVIDED BY OTHER DISCIPLINES AS PART OF THE CONTRACT DOCUMENTS. VERIFY ALL VOLTAGES AND AMPACITIES OF EQUIPMENT WITH GENERAL AND OTHER SUB-CONTRACTORS PRIOR TO ROUGH-IN AND PROVIDE PROVISIONS FOR CORRECT BREAKER, WIRING, AND CONDUIT SIZES BASED ON ACTUAL EQUIPMENT TO BE USED FOR THE PROJECT.

R. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.

S. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.

T. PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.

U. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE ORPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-26.

V. ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN +15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1.

W. CONTRACTOR SHALL PERFORM ALL TESTING AND COMPLETE ALL DOCUMENTATION FOR THE LIGHTING AND LIGHTING CONTROLS SYSTEM ACCEPTANCE TESTING PER REQUIREMENTS OF CEC SECTION 130.4. SUBMIT ALL DOCUMENTATION TO THE AHJ.

DRAWING INDEX

AGENCY APPROVAL DSA# 02-122861

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DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

19·6

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REGISTERED PROFESSIONAL ENGINEER E19203 EXP. 6-30-26 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE
SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

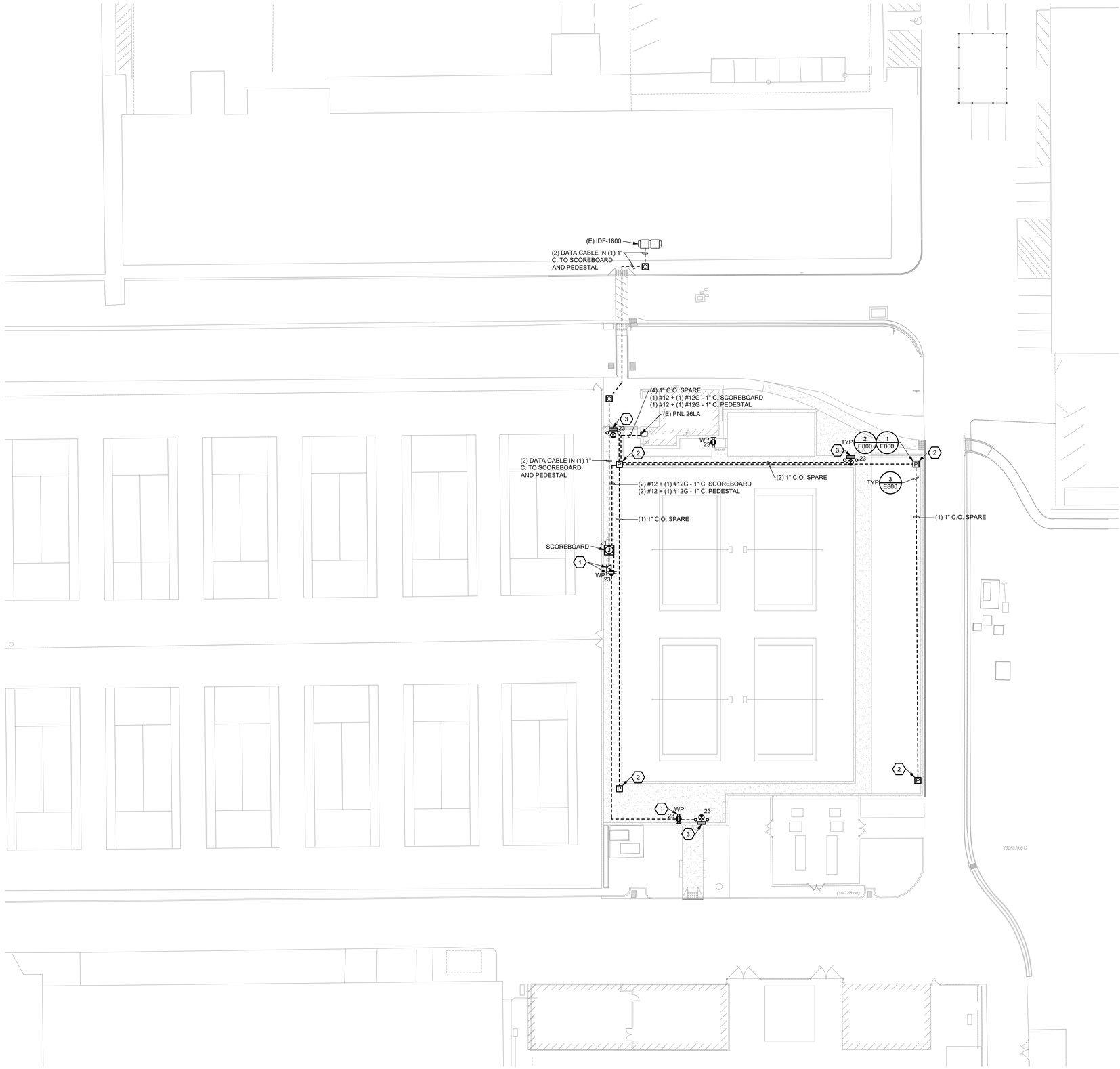
SHEET TITLE
GENERAL INFORMATION

DRAWN BY: DM JOB NUMBER: 24056

SHEET NO.
E000

DATE: AUGUST 13, 2024

FILE LOCATION: G:\shared drives\01_projects\madi architecture_47\2447.42 - solano ccd sand volleyball courts\05_drawings\01_DWGs\2447.42 - E000 - General Information.dwg
LAST SAVED ON: 1/06/25 at 4:12pm, PLOTTED ON: 2/07/25 at 8:15am



1 **SITE PLAN**
1" = 20'-0"

GENERAL NOTES

A. PROVIDE SEPARATE PULL BOXES FOR POWER AND COMMUNICATIONS CONDUIT. LABEL IN GRADE POWER PULL BOXES AS "ELECTRICAL." LABEL IN GRADE COMMUNICATIONS PULL BOXES AS "SIGNAL."

B. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.

C. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

D. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, LANDSCAPING, AND CIVIL EQUIPMENT WITH ARCHITECTURAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

E. CIRCUIT ALL DEVICES ON THIS SHEET TO (E) PANELBOARD 26LA, UNLESS OTHERWISE NOTED.

F. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

G. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

(#) SHEET NOTES

1. PROVIDE 30" HIGH 2-GANG UTILITY PEDESTAL WITH HINGED COVER AND INTERNAL DIVIDER FOR MOUNTING POWER AND DATA DEVICES, LEGRAND XPP2G30CD-BK OR APPROVED EQUAL.
2. PULL BOXES AND UNDERGROUND CONDUITS FOR FUTURE USE SHALL BE PART OF BID ALTERNATE.
3. PROVIDE UL WET LISTED EMERGENCY EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING AND BATTERY PACK WITH MINIMUM 90 MIN RUNTIME, EMERGILITE SURVIVE-ALL SVX COMBO SERIES WW-SVX24N-1-G-DA-4X-2-LJ OR APPROVED EQUAL. MOUNT TO FENCE POST, SEE DETAIL 4/E800.

AGENCY APPROVAL DSA# 02-122861

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REVISIONS

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PROJECT OWNER & TITLE

SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

SITE PLAN OVERALL

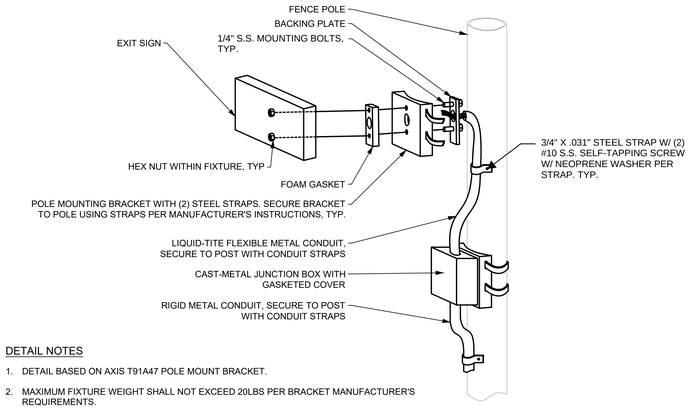
DRAWN BY: DM JOB NUMBER: 24056

SHEET NO.

E100

DATE: AUGUST 13, 2024

FILE LOCATION: G:\shared drives\01_projects\madi architecture_47\24447.42 - solano ccd sand volleyball courts\05_drawings\01_DWGs\24447.42 - E100 - Site Plan.dwg
LAST SAVED ON: 1/06/25 at 4:31pm, PLOTTED ON: 2/07/25 at 8:15am

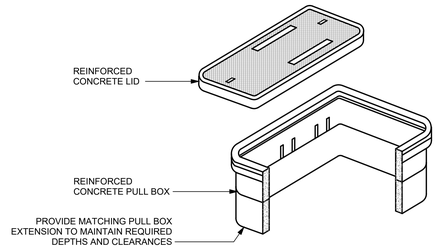


DETAIL NOTES

1. DETAIL BASED ON AXIS T91A47 POLE MOUNT BRACKET.
2. MAXIMUM FIXTURE WEIGHT SHALL NOT EXCEED 20LBS PER BRACKET MANUFACTURER'S REQUIREMENTS.

4 FENCE MOUNTED LIGHT

NOT TO SCALE

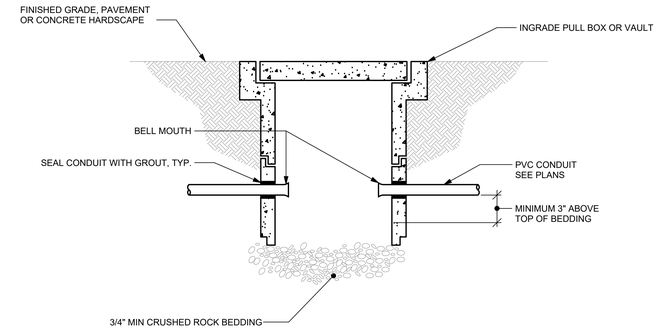


DETAIL NOTES

1. HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCTION BOX WITH END AND SIDE KNOCKOUTS. NON-SETTLING SHOULDERS MAINTAIN GRADE AND FACILITATE BACK FILLING. SIZE PULL BOX PER CODE.
2. PROVIDE MINIMUM OF 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
3. ASSUMED BOX SIZE SHALL BE 10.5" X 17.25" X 12" CHRISTY TYPE "N" SERIES PULL BOX WITH "N" SERIES LID UON OR EQUAL. CONTRACTOR SHALL VERIFY EXACT SIZE OF BOX REQUIRED BASED ON LAYOUT, QUANTITY, AND SIZE OF CONDUITS AS INSTALLED IN FIELD AND SHALL PROVIDE LARGER BOX IF REQUIRED BASED ON INSTALLED CONDITIONS.
4. PROVIDE IN AREAS NOT SUBJECT TO VEHICULAR TRAFFIC (LANDSCAPE), UON.

1 INGRADE PULL BOX

NOT TO SCALE



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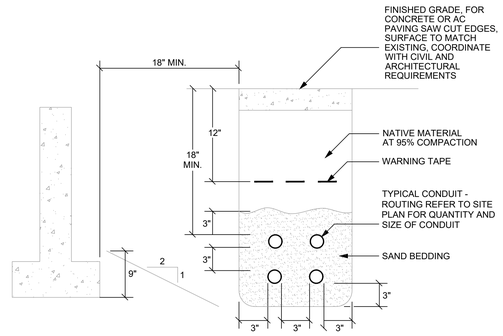
4. PROVIDE IN AREAS NOT SUBJECT TO VEHICULAR TRAFFIC (LANDSCAPE), UON.

2 INGRADE PULL BOX CONDUIT TERMINATION

NOT TO SCALE



DETAIL NOTES:

1. TRENCHES PARALLEL TO FOOTINGS SHALL NOT BE BELOW A PLANE HAVING A DOWNWARD SLOP OF 1 VERTICAL UNIT TO 2 UNITS HORIZONTAL (50 PERCENT SLOPE) FROM A LINE 9" ABOVE THE BOTTOM EDGE OF THE FOOTING.
2. TRENCHES PARELLEL TO FOOTINGS SHALL BE A MINIMUM DISTANCE OF 18" FROM THE FACE OF THE FOOTING.

3 CONDUIT IN TRENCH PARALLEL TO FOOTING

AGENCY APPROVAL DSA# 02-122861

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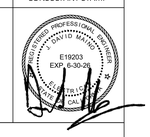


REVISIONS

NO.	DATE	DESCRIPTION

PROJECT OWNER & TITLE

SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd, Fairfield
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

DETAILS

DRAWN BY: DM JOB NUMBER: 24056

SHEET NO.

E800

DATE: AUGUST 13, 2024

USASHADE & Fabric Structures, Inc.

Solano Community College

FABRIC SHADE STRUCTURE

DSA P.C. 04-121917

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2022 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. ALL WORK SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
3. SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.
4. PRIOR TO SUBMITTAL ARCHITECT OF RECORD SHALL IDENTIFY PC MODEL(S) SELECTED BY END USER ON SHEETS T-1.0 AND T-2.0 BY CHECKING THE APPROPRIATE BOX ASSOCIATED WITH SELECTED PC MODEL(S). EXCLUDE SHEETS FOR MODELS NOT SELECTED.

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

1. COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF THE SHADE STRUCTURE(S).
2. PROVIDE A CODE ANALYSIS, INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTIONS (V-B). INDICATE OCCUPANT LOAD FACTOR (2022 CBC, SECTION 1004).
3. ACTUAL DIMENSIONS OF SHADE STRUCTURES.
4. DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
5. INDICATE LOCATIONS OF FIRE EXTINGUISHERS WITHIN 75 FEET.
6. SHOW LOCATION OF AUDIBLE FIRE ALARM.
7. ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B, & C", RESPECTIVELY, IN ASCE/SEI 19-16, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
8. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORTS REQUIREMENTS SHALL COMPLY WITH DSA IR A-4.
9. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.

FOR SNOW LOAD MODELS ONLY:

10. INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20'-0" FOR SNOW LOAD MODEL (ASCE 7-16).
11. ACTUAL SITE ELEVATION (FEET) TO DETERMINE IF THE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-16.

P.C. NOTES

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

LIST OF APPLICABLE CODES:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) , PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS:

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

APPLICABLE CODES

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFFESIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

SEISMIC

SELECT ONE

X DESIGN BASED ON SITE CLASS $D_{default}$
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 1.516g Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
GEOTECHNICAL INVESTIGATION PROVIDED
SITE CLASS: ☐ C ☐ D
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

☐ DESIGN BASED ON SITE CLASS SPECIFIC GROUND MOTION HAZARD ANALYSIS
PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: ☐ C ☐ D

S_{DS} = 2/3 Fa Ss = 0.68g ≤ 2.0
Cs = 1.6 USED IN DESIGN
SEISMIC DESIGN CATEGORY: X D ☐ E

CODE ANALYSIS			
OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCUPANT LOAD	SHADE STRUCTURE AREA (ft^2)

SITE SPECIFIC PARAMETERS

MANUFACTURER:

USA SHADE & FABRIC STRUCTURES
2580 ESTERS BOUVLEVARD, SUITE 100
DFW AIRPORT, TEXAS 75261
PH. 800-966-5005
W. www.usa-shade.com

ARCHITECT:

HIGGINSON ARCHITECTS, INC.
DAVID HIGGINSON, AIA, PRINCIPAL ARCHITECT
34247 YUCAIPA BOULEVARD, SUITE D
YUCAIPA, CALIFORNIA 92399
PH. 909-499-0058
E. dhiggInson@higgInsonarchitects.com
W. www.hIggInsonarchitects.com

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA

STRUCTURAL ENGINEER:

MARK LOWE, S.E.
c/o USA SHADE AND FABRIC STRUCTURES

REGISTERED PROFESSIONAL ENGINEER MARK ALBERT LOWE No. 3693 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT / ENGINEER

✓	SHEET NO.	SHEET DESCRIPTION	UNIT STRUCTURE TYPE	MAX. UNIT SIZE	UNIT MODEL NUMBER
X	T-1.0	TITLE SHEET			
X	T-2.0	UNIT SELECTION			
X	T-3.0	T&I FORMS			
	1.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 15'	DSA4012030-22
	1.2-2000	REACTIONS	HIP	20' x 30' x 15'	DSA4012030-22
	2.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 15'	DSA4013030-22
	2.2-2000	REACTIONS	HIP	30' x 30' x 15'	DSA4013030-22
	3.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 15'	DSA4013040-22
	3.2-2000	REACTIONS	HIP	30' x 40' x 15'	DSA4013040-22
	4.1-1000	PRODUCT INFORMATION	HIP	40' x 40' x 15'	DSA4014040-22
	4.2-2000	REACTIONS	HIP	40' x 40' x 15'	DSA4014040-22
	5.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 12'	DSA401203012-22
	5.2-2000	REACTIONS	HIP	20' x 30' x 12'	DSA401203012-22
	6.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 12'	DSA401303012-22
	6.2-2000	REACTIONS	HIP	30' x 30' x 12'	DSA401303012-22
	7.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 12'	DSA401304012-22
	7.2-2000	REACTIONS	HIP	30' x 40' x 12'	DSA401304012-22
	8.1-1000	PRODUCT INFORMATION	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	8.2-2000	REACTIONS	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	9.1-1000	PRODUCT INFORMATION	JOINED HIPS	VARIES	DSA401J-22
	9.2-1001	DETAILS	JOINED HIPS	VARIES	DSA401J-22
	9.3-2000	REACTIONS	JOINED HIPS	VARIES	DSA401J-22
	10.1-1000	PRODUCT INFORMATION	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.2-1001	DETAILS	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.3-2000	REACTIONS	QUAD JOINED HIPS	VARIES	DSA401Q-22
X	11.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
X	11.2-2000	REACTIONS	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
	12.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
	12.2-2000	REACTIONS	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
	13.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	13.2-2000	REACTIONS	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	14.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	14.2-2000	REACTIONS	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	15.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	15.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	16.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	16.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	17.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	17.2-2000	REACTIONS	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	18.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	18.2-2000	REACTIONS	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	19.1-1000	PRODUCT INFORMATION	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	19.2-2000	REACTIONS	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	20.1-1000	PRODUCT INFORMATION	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q6060-22
	20.2-2000	REACTIONS	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q6060-22
	21.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	21.2-2000	REACTIONS	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	22.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	22.2-2000	REACTIONS	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	23.1-1000	PRODUCT INFORMATION	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	23.2-2000	REACTIONS	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	24.1-1000	PRODUCT INFORMATION	TENSIONS SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	24.2-2000	REACTIONS	TENSIONS SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	25.1-1000	PRODUCT INFORMATION	TENSIONS SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	25.2-2000	REACTIONS	TENSIONS SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	26.1-1000	PRODUCT INFORMATION	TRIANGLE	25' x 25' x 15'	DSA30125-22
	26.2-2000	REACTIONS	TRIANGLE	25' x 25' x 15'	DSA30125-22
	27.1-1000	PRODUCT INFORMATION	TRIANGLE	40' x 40' x 15'	DSA30140-22
	27.2-2000	REACTIONS	TRIANGLE	40' x 40' x 15'	DSA30140-22
	28.1-1000	PRODUCT INFORMATION	HEXAGON	Ø40' X 15'	DSA60340-22
	28.2-2000	REACTIONS	HEXAGON	Ø40' X 15'	DSA60340-22
	29.1-1000	PRODUCT INFORMATION	HEXAGON	Ø60' X 15'	DSA60360-22
	29.2-2000	REACTIONS	HEXAGON	Ø60' X 15'	DSA60360-22

TOTAL SHEET COUNT: 5 SHEETS

SHEET INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

USASHADE & Fabric Structures®
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Solano Community College District

PROJECT NAME:
Solano Community College
Sand Volleyball Complex

LOCATION:
4000 Suisun Valley Road
Fairfield, CA 94534

MODEL NUMBER:

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121917 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 10/30/2023

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

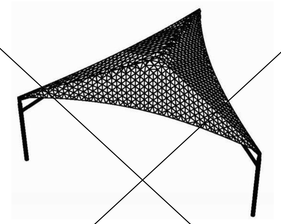
Eng. By :	DWH	2/14/23
Design By :	DWH	2/14/23
Approved By :	DWH	2/14/23

DRAWING DESCRIPTION:

DWG.
TITLE SHEET

SHEET
T-1.0

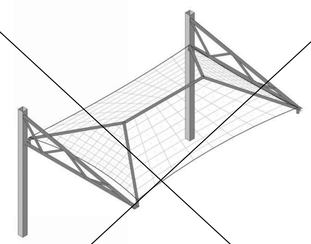
REV.



STRUCTURE MODEL:	DSA30125-22	SEE SHEET 26.1-1000
MAX. SIZE:	25' x 25' x 15'	
MAX. AREA:	271 SQ. FT.	
MAX. OCCUPANCY:	18 PERSONS	
STRUCTURE MODEL:	DSA30140-22	SEE SHEET 27.1-1000
MAX. SIZE:	40' x 40' x 15'	
MAX. AREA:	692 SQ. FT.	
MAX. OCCUPANCY:	46 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

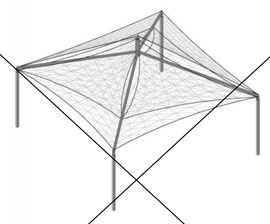
TRIANGLE



STRUCTURE MODEL:	DSA2062030-22	SEE SHEET 21.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

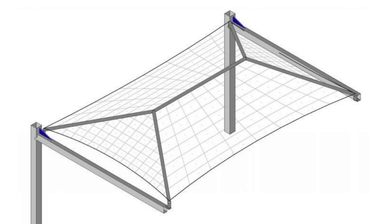
TRI-TRUSS HIP SINGLE WIDE



STRUCTURE MODEL:	DSA4073030-22	SEE SHEET 17.1-1000
MAX. SIZE:	30' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	
STRUCTURE MODEL:	DSA4073040-22	SEE SHEET 18.1-1000
MAX. SIZE:	30' x 40' x 15'	
MAX. AREA:	1,200 SQ. FT.	
MAX. OCCUPANCY:	80 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

MARINER PEAK

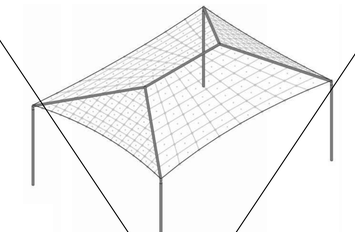


X

STRUCTURE MODEL:	DSA2022030-22	SEE SHEET 11.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 ~~& PC T-4.0~~

FULL CANTILEVER HIP SINGLE



STRUCTURE MODEL:	DSA4012030-22	SEE SHEET 1.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	
STRUCTURE MODEL:	DSA4013030-22	SEE SHEET 2.1-1000
MAX. SIZE:	30' x 30' x 15'	
MAX. AREA:	900 SQ. FT.	
MAX. OCCUPANCY:	60 PERSONS	
STRUCTURE MODEL:	DSA4013040-22	SEE SHEET 3.1-1000
MAX. SIZE:	30' x 40' x 15'	
MAX. AREA:	1,200 SQ. FT.	
MAX. OCCUPANCY:	80 PERSONS	
STRUCTURE MODEL:	DSA401203012-22	SEE SHEET 4.1-1000
MAX. SIZE:	20' x 30' x 12'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	
STRUCTURE MODEL:	DSA401303012-22	SEE SHEET 5.1-1000
MAX. SIZE:	30' x 30' x 12'	
MAX. AREA:	900 SQ. FT.	
MAX. OCCUPANCY:	60 PERSONS	
STRUCTURE MODEL:	DSA401304012-22	SEE SHEET 6.1-1000
MAX. SIZE:	30' x 40' x 12'	
MAX. AREA:	1,200 SQ. FT.	
MAX. OCCUPANCY:	80 PERSONS	
STRUCTURE MODEL:	DSA4014040-22	SEE SHEET 7.1-1000
MAX. SIZE:	40' x 40' x 12'	
MAX. AREA:	1,600 SQ. FT.	
MAX. OCCUPANCY:	106 PERSONS	
STRUCTURE MODEL:	DSA401S2030-22 (20 psf SNOW LOAD)	SEE SHEET 8.1-1000
MAX. SIZE:	20' x 30' x 15'	
MAX. AREA:	600 SQ. FT.	
MAX. OCCUPANCY:	40 PERSONS	

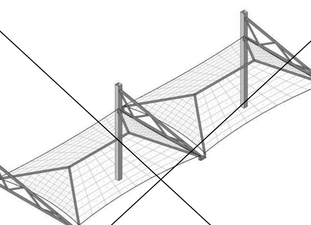
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

HIP

STRUCTURE MODEL:	DSA60340-22	SEE SHEET 28.1-1000
MAX. SIZE:	Ø40' x 15'	
MAX. AREA:	1,040 SQ. FT.	
MAX. OCCUPANCY:	69 PERSONS	
STRUCTURE MODEL:	DSA60360-22	SEE SHEET 29.1-1000
MAX. SIZE:	Ø60' x 15'	
MAX. AREA:	2,338 SQ. FT.	
MAX. OCCUPANCY:	156 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

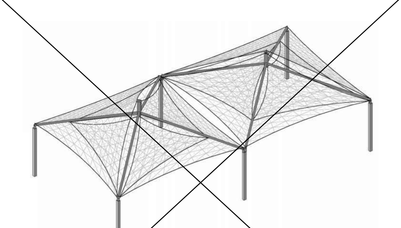
HEXAGON



STRUCTURE MODEL:	DSA3052060-22	SEE SHEET 22.1-1000
MAX. SIZE:	20' x 200' x 15'	
MAX. AREA:	4,000 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

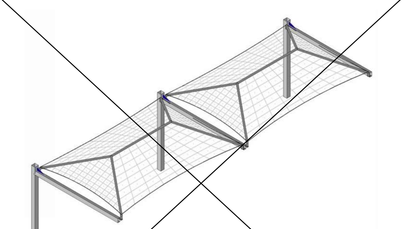
TRI-TRUSS HIP JOINED



STRUCTURE MODEL:	DSA407J3060-22	SEE SHEET 19.1-1000
MAX. SIZE:	30' x 133' x 15'	
MAX. AREA:	3,990 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

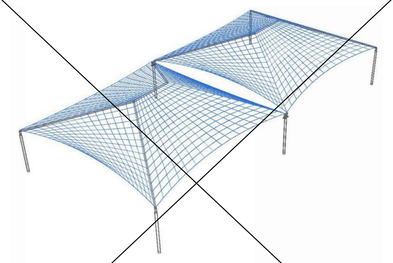
MARINER PEAK JOINED



STRUCTURE MODEL:	DSA3022060-22	SEE SHEET 12.1-1000
MAX. SIZE:	20' x 200' x 15'	
MAX. AREA:	4,000 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

FULL CANTILEVER HIP JOINED

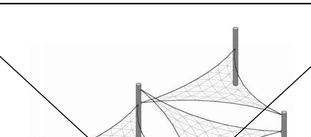


STRUCTURE MODEL:	DSA401J-22	SEE SHEET 9.1-1000
MAX. SIZE:	VARIES, SEE JOINED HIP UNIT SHEET	
MAX. AREA:	VARIES	
MAX. OCCUPANCY:	VARIES	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

JOINED HIP

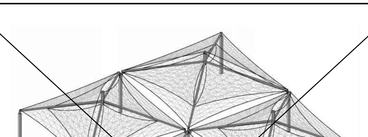
NOT USED



STRUCTURE MODEL:	DSA30730-22	SEE SHEET 23.1-1000
MAX. SIZE:	30' x 133' x 15'	
MAX. AREA:	3,990 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

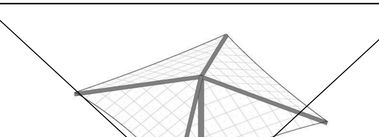
TENSIONS SAILS THREE-POINT



STRUCTURE MODEL:	DSA407Q8060-22	SEE SHEET 20.1-1000
MAX. SIZE:	60' x 60' x 15'	
MAX. AREA:	3,600 SQ. FT.	
MAX. OCCUPANCY:	240 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

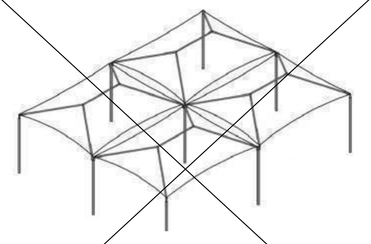
MARINER PEAK QUAD



STRUCTURE MODEL:	DSA1031414-22	SEE SHEET 13.1-1000
MAX. SIZE:	14' x 14' x 12'	
MAX. AREA:	196 SQ. FT.	
MAX. OCCUPANCY:	13 PERSONS	
STRUCTURE MODEL:	DSA1032020-22	SEE SHEET 14.1-1000
MAX. SIZE:	20' x 20' x 12'	
MAX. AREA:	400 SQ. FT.	
MAX. OCCUPANCY:	26 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

SINGLE POST PYRAMID

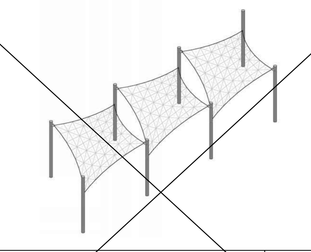


STRUCTURE MODEL:	DSA401Q-22	SEE SHEET 10.1-1000
MAX. SIZE:	VARIES, SEE QUAD HIP UNIT SHEET	
MAX. AREA:	VARIES	
MAX. OCCUPANCY:	VARIES	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

QUAD HIP

NOT USED

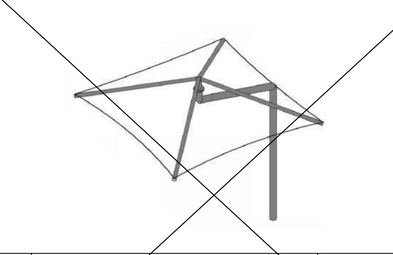


STRUCTURE MODEL:	DSA4182020-22	SEE SHEET 24.1-1000
MAX. SIZE:	20' x 200' x 15'	
MAX. AREA:	4,000 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	
STRUCTURE MODEL:	DSA4183030-22	SEE SHEET 25.1-1000
MAX. SIZE:	30' x 133' x 15'	
MAX. AREA:	3,990 SQ. FT.	
MAX. OCCUPANCY:	266 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

TENSIONS SAILS FOUR-POINT

NOT USED



STRUCTURE MODEL:	DSA1241414-22	SEE SHEET 15.1-1000
MAX. SIZE:	14' x 14' x 12'	
MAX. AREA:	196 SQ. FT.	
MAX. OCCUPANCY:	13 PERSONS	
STRUCTURE MODEL:	DSA1242020-22	SEE SHEET 16.1-1000
MAX. SIZE:	20' x 20' x 12'	
MAX. AREA:	400 SQ. FT.	
MAX. OCCUPANCY:	26 PERSONS	

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0

SINGLE POST PYRAMID CANTILEVER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

USASHADE & Fabric Structures®
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Solano Community College District

PROJECT NAME:
Solano Community College
Sand Volleyball Complex

LOCATION:
4000 Suisun Valley Road
Fairfield, CA 94534

MODEL NUMBER:

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121917 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 10/30/2023

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	DWH	2/14/23
Design By :	DWH	2/14/23
Approved By :	DWH	2/14/23

DRAWING DESCRIPTION:

DWG.
UNIT SELECTION

SHEET
T-2.0

REV.

REGISTERED PROFESSIONAL ENGINEER
MARK ALBERT DIXON
No. 3693
STRUCTURAL
STATE OF CALIFORNIA
10/18/2023

LICENSED ARCHITECT
DAVID MIGGINSON
C19168
10-31-25
RENEWAL DATE
STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-121917
School Name: PC FABRIC SHADE STRUCTURES
School District: USA SHADE AND FABRIC STRUCTURES
DSA File Number:
Increment Number:
Date Created: 2023-02-15 15:23:09

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
	LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Periodic – Indicates that a periodic special inspection is required	**PI (Project Inspector) –** Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
Test – Indicates that a test is required	**SI (Special Inspection)** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

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Table 1705A.6, Table 1705A.7, Table 1705A.8

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Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

	S1. GENERAL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	**See Notes**	**PI**	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	**Continuous**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Compaction testing.	**Test**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

	S3. DRIVEN DEEP FOUNDATIONS (PILES):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify pile materials, sizes and lengths comply with the requirements.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**b.** Determine capacities of test piles and conduct additional load tests as required.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.

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Table 1705A.6, Table 1705A.7, Table 1705A.8

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**c.** Inspect driving operations and maintain complete and accurate records for each pile.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**d.** Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**e.** Steel piles.	Provide tests and inspections per STEEL section below.		
☐	**f.** Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	**g.** For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

	S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Note**
☑	**a.** Inspect drilling operations and maintain complete and accurate records for each pier.	**Continuous**	**PI**	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Verify pier locations, diameters, plumbness and lengths.Record concrete or grout volumes.	**Continuous**	**PI**	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**c.** Concrete piers.	Provide tests and inspections per CONCRETE section below.		

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S5. RETAINING WALLS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Placement, compaction and inspection of backfill.	**Continuous**	**GE***	**1705A.6.1.** * By geotechnical engineer or his or her qualified representative. (See section S2 above).
☐	**b.** Placement of soil reinforcement and/or drainage devices.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**c.** Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
☐	**d.** Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	**e.** Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

	S6. OTHER SOILS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Soil Improvements	**Test**	**GE***	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
☐	**b.** Inspection of Soil Improvements	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**c.**			

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of required design mix.	**Periodic**	**SI**	**Table 1705A.3 Item 5, 1910A.1.**
☑	**b.** Identifiy, sample, and test reinforcing steel.	**Test**	**LOR**	**1910A.2;** ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	**c.** During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	**Test**	**LOR**	**Table 1705A.3 Item 6**; ACI 318-19 Sections 26.5 & 26.12.
☑	**d.** Test concrete (f'_c).	**Test**	**LOR**	**1905A.1.17;** ACI 318-19 Section 26.12.
☑	**e.** Batch plant inspection: **Eliminated**	**See Notes**	**SI**	Default of **'Continuous'** per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1,** or eliminated per **1705A.3.3.2.** See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	**f.** Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

	C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Sample and test prestressing tendons and anchorages.	**Test**	**LOR**	**1705A.3.4, 1910A.3**
☐	**b.** Inspect placement of prestressing tendons.	**Periodic**	**SI**	**1705A.3.4, Table 1705A.3 Items 1 & 9.**

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**c.** Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	**Periodic**	**SI**	**Table 1705A.3 Item 13.** Special inspector to verify specified concrete strength test prior to stressing.
☐	**d.** Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	**Continuous**	**SI**	**1705A.3.4, Table 1705A.3 Item 9;** ACI 318-14 Section 26.13

	C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect fabrication of precast concrete members.	**Continuous**	**SI**	ACI 318-19 Section 26.13.
☐	**b.** Inspect erection of precast concrete members.	**Periodic**	**SI***	**Table 1705A.3 Item 10.** * May be performed by PI when specifically approved by DSA.
☐	**c.** For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	**Continuous**	**SI**	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5
☐	**d.** Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	**Periodic**	**SI**	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	C4. SHOTCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect shotcrete placement for proper application techniques.	**Continuous**	**SI**	**1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3.** See ACI 506.2-13 Section 3.4, ACI 506R-16.
☐	**b.** Sample and test shotcrete (f'_c).	**Test**	**LOR**	**1908A.2, 1705A.3.9**

	C5. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect installation of post-installed anchors	**See Notes**	**SI***	**1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	**b.** Test post-installed anchors.	**Test**	**LOR**	**1910A.5.** (See Appendix (end of this form) for exemptions.)

	C6. OTHER CONCRETE:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	**Periodic**	*	**Table 1705A.2.1 Item 3a–3c.** 2202A.1**;** AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	**Test**	**LOR**	**2202A.1.**
☑	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
☐	**e.** Buckling restrained braces.	**Test**	**LOR**	Testing and special inspections in accordance with IR 22-4.

	S/A2. HIGH-STRENGTH BOLTS: SEE STRUCTURAL NOTES ON SERIES 1000 SHEETS FOR JOINT TYPE			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	**Periodic**	**SI**	**Table 1705A.2.1 Items 1a & 1b, 2202A.1;** AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☑	**b.** Test high-strength bolts, nuts and washers.	**Test**	**LOR**	**Table 1705A.2.1 Item 1c, 2213A.1**; RCSC 2014 Section 7.2; DSA IR 17-8.
☑	**c.** Bearing-type (“snug tight”) connections.	**Periodic**	**SI**	**Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☑	**d.** Pretensioned and slip-critical connections.	*	**SI**	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *“Continuous” or “Periodic” depends on the tightening method used.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A3. WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	**Periodic**	**SI**	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	**b.** Verify weld filler material manufacturer’s certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.

	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16”, floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	**d.** Verification of reinforcing steel weldability other than ASTM A706.	**Periodic**	**SI**	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**e.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	**b.** Inspect single-pass fillet welds ≤ 5/16”.	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect end-welded studs (ASTM A-108) installation (including bend test).	**Periodic**	**SI**	**2213A.2**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	**d.** Inspect floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.6;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	**e.** Inspect welding of structural cold-formed steel.	**Periodic**	**SI***	**1705A.2.5; AWS D1.3; DSA IR 17-3.** The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	**f.** Inspect welding of stairs and railing systems.	**Periodic**	**SI***	**1705A.2.1;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	**g.** Verification of reinforcing steel weldability.	**Periodic**	**SI**	**1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	**h.** Inspect welding of reinforcing steel.	**Continuous**	**SI**	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**c.**	**Test**	**LOR**	

	S/A7. STEEL JOISTS AND TRUSSES:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	**Continuous**	**SI**	**1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses.

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	**Periodic**	**SI**	**1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.**
☐	**b.** Test density.	**Test**	**LOR**	**1705A.15.1, 1705A.15.5, ASTM E736**
☐	**c.** Bond strength adhesion/cohesion.	**Test**	**LOR**	**1705A.15.1, 1705A.15.4, ASTM E605**

	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Anchor Bolts and Anchor Rods	**Test**	**LOR**	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	**b.** Threaded rod not used for foundation anchorage.	**Test**	**LOR**	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	**Periodic**	**SI**	Table 1705A.13.7
☐	**b.** Fabricated storage rack elements.	**Periodic**	**SI**	1704A.2.5; Table 1705A.13.7

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DGS DSA 103-22 (Revised 12/01/2022) Page 12 of 17

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-121917
School Name: PC FABRIC SHADE STRUCTURES
School District: USA SHADE AND FABRIC STRUCTURES
DSA File Number:
Increment Number:
Date Created: 2023-02-15 15:23:09

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**c.** Storage rack anchorage installation.	**Periodic**	**SI**	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
☐	**d.** Completed storage rack system to indicate compliance with the approved construction documents.	**Periodic**	**SI***	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

	S/A11. Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

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GENERAL DSA-103 NOTES:

1. THE SAMPLE DSA-103 FORM PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY TO ASSIST IN THE COMPLETION OF SPECIFIC DSA-103 FORMS FOR FUTURE PROJECTS.
2. A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS P.C. DOCUMENT IS BEING INCORPORATED INTO AND ALL SAMPLE DSA-103 SHEETS ARE TO BE CROSSED OUT ON THIS SHEET

ADDITIONAL TESTING AND INSPECTION NOTES:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE EMPLOYED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. A "DSA CERTIFIED" PROJECT INSPECTRO EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
3. THE SITE PROJECT INSPECTOR SHALL BE CLASS 2.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE RQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
5. THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
6. COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
7. THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
8. PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
   - 8.1. A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
   - 8.2. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, IT'S LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCING AGENCY.

No. 3693
10/18/2023

C19168
10-31-25
DAVID HIGGINSON

DSA 103 (SAMPLE) - STATEMENT OF STRUCTURAL TESTS AND INSPECTIONS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN

USA SHADE
& Fabric Structures®

CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Solano Community College District

PROJECT NAME:

LOCATION:
Solano Community College
Sand Volleyball Complex
4000 Suisun Valley Road
Fairfield, CA 94534

MODEL NUMBER:

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121917 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 10/30/2023

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	**DWH**	**2/14/23**
Design By :	**DWH**	**2/14/23**
Approved By :	**DWH**	**2/14/23**

DRAWING DESCRIPTION:

DWG. **T&I FORMS**

SHEET **T-3.0**

REV.

GENERAL NOTES

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING, UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-16 GRADE C, IN ITS' ENTIRETY.
TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE GRADE C 46,000 PSI YIELD STRESS MINIMUM / 62,000 PSI TENSILE STRESS MINIMUM

5.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE AND RECTANGULAR 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS
ROUND PIPE 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS

6.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70SX ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.

11.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 65 KSI, TENSILE STRENGTH=100 KSI MINIMUM, ALLOY GROUP 2, CONDITION CW1. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 2, CONDITION CW1. REFERRING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS. BOLTS, ITEM 11, SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST).

12.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM F3125 GRADE A325 N (GALVANIZED). ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436. HIGH STRENGTH BOLTS, ITEM 15, SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST) WITH DOUBLE NUTS. ALL NUTS SHALL BE LUBRICATED WITH A LUBRICANT CONTAINING A VISIBLE DYE SO A VISUAL CHECK CAN BE MADE FOR THE LUBRICANT AT THE TIME OF THE FIELD INSTALLATION. WASHERS SHALL BE GALVANIZED PER ASTM F2329.

13.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

14.- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

15.- ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE Fy= 60000 PSI , MIN. GR. 60. ALSO COATED ACCORDING TO ASTM A767/ A767M, STANDARD SPECIFICATION FOR ZINC-COATING (GALVANIZED) STEEL BARS FOR CONCRETE REINFORCEMENT.

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329).
ANCHOR BOLT'S DIAMETER NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø1 1/4"

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

6.- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3/4".

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023/A1023M, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS Sa=4909 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5)

-K-12:	250 PERSONS
-PUBLIC ASSEMBLY:	300 PERSONS
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE:	500 PERSONS

CBC PC DESIGN NOTES

BUILDING CODE		CBC 2022 (BASED ON IBC 2021)
FLOOR LIVE LOAD		N/A
ROOF LIVE LOAD		RLL 5 PSF
ALLOWABLE SOIL PRESSURE:		
DL + LL (CONC FTG)		1500 PSF
DL + LL + SEISMIC (CONC FTG)		1500 PSF
LATERAL BEARING DESIGN VALUE		100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)
PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD	5 PSF
ICE LOAD	ZERO PSF
FLOOD HAZARD AREA	ZONE X

WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION

-BASIC DESIGN WIND SPEED (3 SEC GUST)	V	115 MPH
-ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4)	V_{ASD}	90 MPH
-WIND EXPOSURE FACTOR	C	
-TOPOGRAPHIC FACTOR	Kzt	1
-RISK CATEGORY	II	
-VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kz	0.88
-VELOCITY PRESSURE	qz	25.32 PSF

SEISMIC DESIGN:

-SITE CLASS		D
-SPECTRAL RESPONSE COEFFICIENTS	SS	3.00g
	S1	1.389g
	SDS	2.00
	SD1	1.39

NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.

-SEISMIC IMPORTANCE FACTOR	Ie	1.0
-DESIGN BASE SHEAR AT BASE	V	6866 LB
-SEISMIC RESPONSE COEFFICIENTS	Cs	1.6
-RESPONSE MODIFICATION FACTOR	R	1.25
-ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE
-RISK CATEGORY		II
-SEISMIC DESIGN CATEGORY		E
-SITE COEFFICIENT CATEGORY	Fa	1.2
	Fv	1.5
-REDUNDANCY FACTOR	ρ	1.3

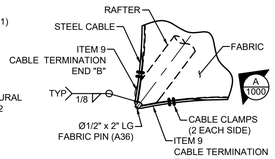
GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

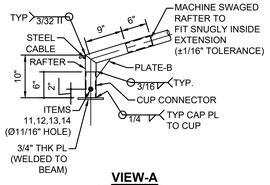
PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 17'-6" THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.

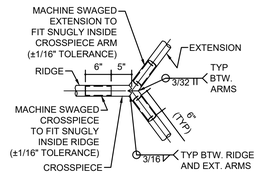
MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.



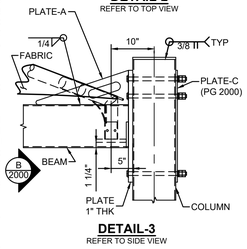
DETAIL 1
REFER TO TOP VIEW



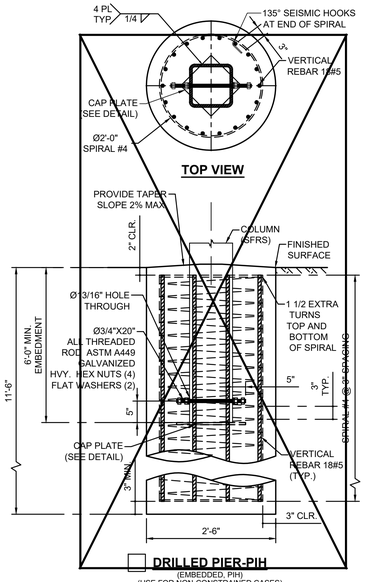
VIEW-A
REFER TO DETAIL-1



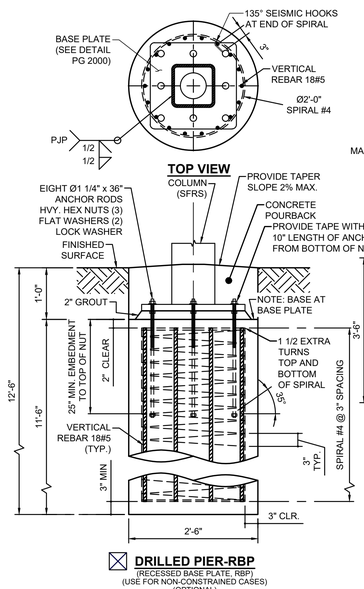
DETAIL-2
REFER TO TOP VIEW



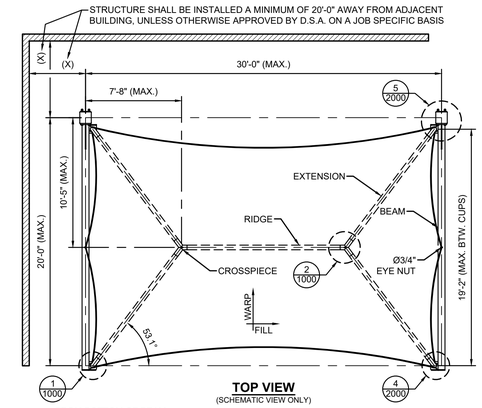
DETAIL-3
REFER TO SIDE VIEW

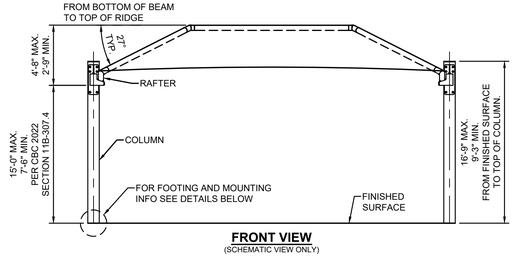


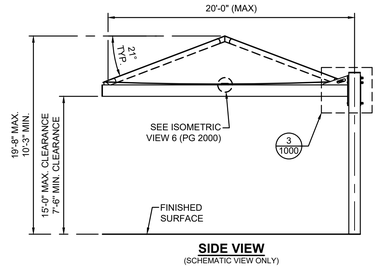
DRILLED PIER-PIH
(EMBEDDED, PIH)
(USE FOR NON-CONSTRAINED CASES)



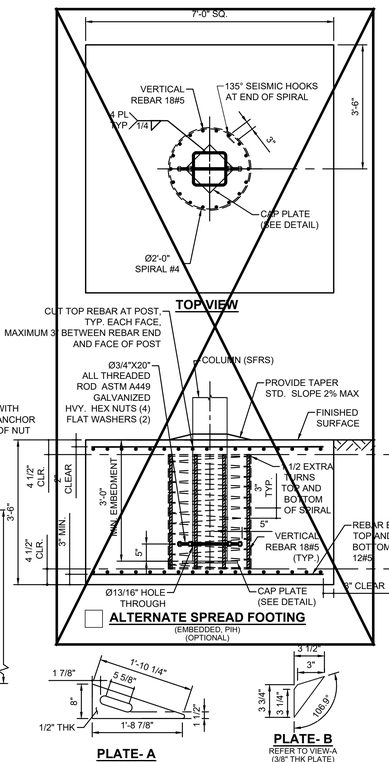
DRILLED PIER-RBP
(RECESSED BASE PLATE, RBP)
(USE FOR NON-CONSTRAINED CASES)
(OPTIONAL)







NOTE: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE OPEN FABRIC SHADE STRUCTURES ADJACENT TO EACH OTHER, FROM CENTER TO CENTER, IS THREE TIMES THE LEAST HORIZONTAL DIMENSION OF THE PIER PER CBC 2022 SEC. 1810A.2.5.



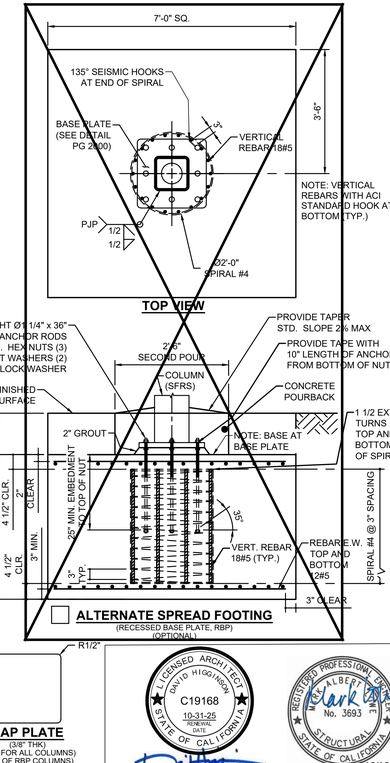
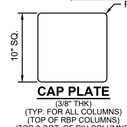


PLATE- A
REFER TO DETAIL-B
(A572 GR. 50)

PLATE- B
REFER TO VIEW-A
(3/8" THK PLATE)
(TYP. FOR ALL RAFTERS)
(A572 GR.50)



CAP PLATE
(3/8" THK)
(TYP. FOR ALL COLUMNS)
(TOP OF RBP COLUMNS)
(TOP & BOT. OF PIH COLUMNS)
(A572 GR.50)

LIST OF MATERIALS

ITEM	QTY	DESCRIPTION	MATERIAL
1	2	COLUMN	HSS 10 x 10 x 0.625
2A	1	BEAM LEFT	HSS 10 x 6 x 0.375
2B	1	BEAM RIGHT	HSS 10 x 6 x 0.375
3	4	CUP CONNECTOR (6" LG)	HSS 4.0 x 0.25
4	4	RAFTER (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
5	4	EXTENSION (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
6	2	CROSSPIECE (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
7	1	RIDGE	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
8	1	FABRIC TOP	FR COLOURSHADE 190/F5
9	1	Ø3/8" CABLE	GALVANIZED STEEL
10	4	Ø3/8" CABLE CLAMP	GALVANIZED STEEL
11	4	Ø5/8"-11NC x 6" HEX BOLT (ST)	316 SS
12	4	Ø5/8"-11NC HEX NUT	316 SS
13	8	Ø5/8" FLAT WASHER	316 SS
14	4	Ø5/8" SPLIT LOCK WASHER	316 SS
15	12	Ø1"-8NC x 14 1/2" HEX BOLT (ST)	ASTM F3125 GRADE A325, GALVANIZED
16	24	Ø1"-8NC HEX NUT	ASTM A563 GALVANIZED
17	12	Ø1" SPLIT LOCK WASHER	ASTM F436 GALVANIZED
18	24	Ø1" FLAT WASHER	ASTM F436 GALVANIZED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD, SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Solano Community College District

PROJECT NAME:
Solano Community College
Sand Volleyball Complex

LOCATION:
4000 Suisun Valley Road
Fairfield, CA 94534

MODEL NUMBER:
DSA2022030-22

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121917 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 10/30/2023

STRUCTURE TYPE:
FULL CANTILEVER HIP SINGLE - DSA

SIZE: MAXIMUM
20' x 30' x 15'e MAX.

SCALE : NONE

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	HH	12/01/22
Design By :	OS	12/01/22
Approved By :	MB	12/01/22

DRAWING DESCRIPTION:
PRODUCT INFORMATION

DWG.
DSA2022030-22

SHEET
11.1-1000

REV.
NC

LICENSED ARCHITECT DAVID HIGGINBOTHAM C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MARK ALBERT BRUNE No. 3693 STRUCTURAL STATE OF CALIFORNIA

10/18/2023

190/F5 Fire rated specifications

Standard range

Revision 0 28-Oct-12

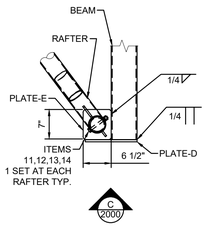
Colour	Shade %	UV Block %	Average GSM	Average Warp break strength kgs	Average Elongation %	Average Weft break strength kgs	Average Elongation %	Average Burst Kpa	Average Burst to Mass ratio
Desert Sand	80	92	185	50	40	72	73	156	0.84
Blue	80	85	185	50	40	72	73	156	0.84
Brown	85		185	50	40	72	73	156	0.84
Green	80	85	185	50	40	72	73	156	0.84
Red	80	86	185	50	40	72	73	156	0.84
Silver	80	81	185	50	40	72	73	156	0.84
Terracotta	75	82	185	50	40	72	73	156	0.84
Yellow	80	89	185	50	40	72	73	156	0.84
				110 LB		159 LB		3258 PSF	

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf

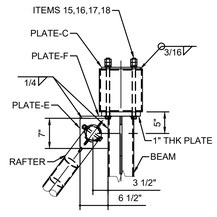
Notes:
- 190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
- Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
- This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory. the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested. Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

Deon Joubert
General Manager - Multiknit (Pty) Ltd

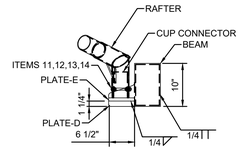
Tommy Rogers
Managing Director - Multiknit (Pty) Ltd



DETAIL-4
REFER TO TOP VIEW PG 1000



DETAIL-5
REFER TO TOP VIEW PG 1000



VIEW C
REFER TO DETAIL-4

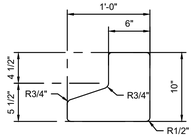
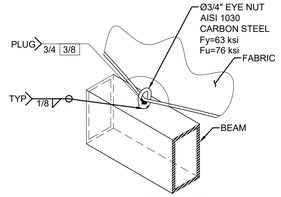


PLATE-D
REFER TO DETAIL-4
(1/2" THK PLT)
(TYP. END OF BEAM)
(A572 GR.50)



ISOMETRIC VIEW 6
REFER TO SIDE VIEW PG 1000

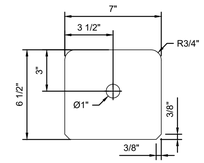


PLATE-E
REFER TO VIEW-B PG 2000
(3/4" THK PLATE)
(A572 GR.50)

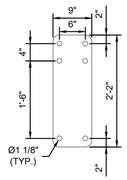
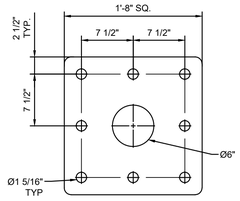


PLATE-C
REFER TO DETAIL-3 PG 1000
(3/8" THK PLATE)
(A572 GR.50)



BASE PLATE
(1 1/4" THK)
(TYP. FOR RBP COLUMNS)

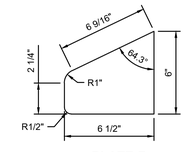
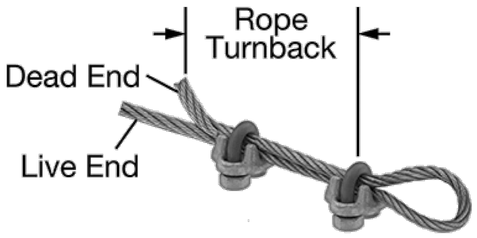
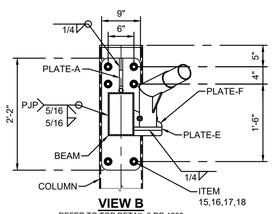


PLATE-F
REFER TO VIEW-C PG 2000
(1/2" THK PLATE)
(A572 GR.50)



FORGED WIRE ROPE CLAMP

FITTING TYPE ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER 3/8"
NUMBER OF CLAMPS REQUIRED: 2
ROPE TURNBACK: 6 1/2"
FOR WIRE ROPE CONSTRUCTION 7 x 19
ATTACHMENT TYPE: LOOP
CLAMP:WIDTH 2", HEIGHT 1 15/16", THICKNESS 1 11/16"
REQUIRED INSTALLATION TOOL TORQUE WRENCH
REQUIRED TORQUE 45 FT.-LBS.
CAPACITY 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450



VIEW B
REFER TO TOP DETAIL-3 PG 1000

Aircraft Cable

Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.

7 x 19

7 x 19 Dia. (In)	Approx. Wt 1000 Ft/lbs	Galvanized Min. Breaking Strengths (lbs)
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400

CAL FIRE

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-052001

COLOURSHADE 190/F5

Product Marketed by:

MULTIKNIT (PTY) LTD
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA, ,

Issue Date : 05/08/2023
Expiration Date : 06/30/2024

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE

Page 1 of 1

LICENSED ARCHITECT
DAVID HIGGINSON
C19168
10-31-25
DATE
RENEWAL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MARK ALBERT ZONE
No. 3693
STRUCTURAL
STATE OF CALIFORNIA

10/18/2023

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Solano Community College District

PROJECT NAME:
Solano Community College
Sand Volleyball Complex

LOCATION:
4000 Suisun Valley Road
Fairfield, CA 94534

MODEL NUMBER:
DSA2022030-22

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121917 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 10/30/2023

STRUCTURE TYPE:
FULL CANTILEVER HIP
SINGLE - DSA

SIZE: MAXIMUM
20' x 30' x 15'e MAX.

SCALE : NONE

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

Eng. By :	HH	12/01/22
Design By :	OS	12/01/22
Approved By :	MB	12/01/22

DRAWING DESCRIPTION:
SPECIFICATIONS

DWG. DSA2022030-22

SHEET 11.2-2000

REV. NC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122194	School Name: Pre Check	School District: Daktronics, Inc.
DSA File Number:	Increment Number:	Date Created: 2023-04-20 22:42:50

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

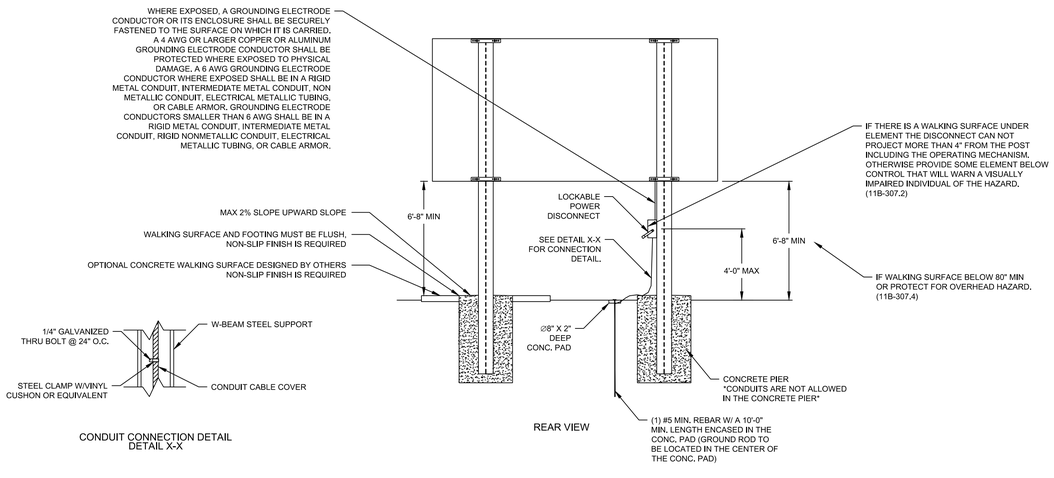
1. TYPE	2. PERFORMED BY
Continuous Indicates that a continuous special inspection is required	GE (Geotechnical Engineer) Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic Indicates that a periodic special inspection is required	LOR (Laboratory of Record) Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test Indicates that a test is required	PI (Project Inspector) Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

THE REST OF THE DSA 103 FORM CONTINUES ON SHEETS 2 & 3.

CHECKLIST OF DESIGN PARAMETERS:

- RISK CATEGORY: II
- WIND SPEED: 100 MPH OR 130 MPH, AS SELECTED FROM TABLES ON SHEETS 8 THRU 10
- ALL CONNECTIONS AND MOUNTING DETAILS DESIGNED FOR 130MPH.
- EXPOSURE: C
- Kzt = 1,0, Kd = 0,85, g = 0,85
- LATERAL FORCE-RESISTING SYSTEM: SIGNS & BILLBOARDS
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- SEISMIC DESIGN CATEGORY: E
- SEISMIC IMPORTANCE FACTOR: Ie = 1,0
- SITE CLASS: D (E & F ARE NOT ALLOWED)
- Ss: 3,00
- S1: 1,50
- SDS: 2,00
- SD1: 1,70
- Fv = 1,7
- Fa = 1,0
- R = 3,0
- Cs: 0,67
- DESIGN BASE SHEAR: V = 0,67*W
- IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THIS PC ARE STILL APPLICABLE.
- GEOHAZARD REPORTS ARE NOT REQUIRED FOR NON-BUILDING FREESTANDING SIGN AND SCOREBOARD STRUCTURES, REF, IR A-4
- CUT SHEETS FOR MANUFACTURED EQUIPMENT ARE REQUIRED.
- THERE ARE NO APPLICABLE FIRE, LIFE SAFETY, OR ENERGY/CLIMATE DESIGN PARAMETERS.

GROUNDING DETAIL



CONDUIT CONNECTION DETAIL
DETAIL X-X

NOTE:

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE CALIFORNIA ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

DRAWING INDEX

SCOPE: CONSTRUCTION OF 2- OR 3-COLUMN STRUCTURES FOR USE WITH DAKTRONICS SIGNS.

INSPECTOR OF RECORD, CLASS 2

PRECHECK DRAWING CHANGES:
CHANGES IN THE PLANS AND SPECIFICATION SHALL BE MADE BY REVISION DOCUMENTS APPROVED BY DSA. (2022 CALIFORNIA ADMINISTRATIVE CODE SECTION 4-338)

SITE SPECIFIC ARCHITECTURAL DRAWING CHANGES:
ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) CHANGES TO THE APPROVED DRAWING AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF STATE ARCHITECTS, AS REQUIRED BY SECTION 4-338 PART 1 TITLE 24 CCR.

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT, OWNER AND APPROVED BY THE DIVISION OF STATE ARCHITECTS SHALL PROVIDE SPECIAL INSPECTION OF THE WORK, THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CODE.

TITLE 24 CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)	(PART 1, TITLE 24 CCR)
2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2	(PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE	(PART 3, TITLE 24 CCR)
2022 CALIFORNIA MECHANICAL CODE (CMC)	(PART 4, TITLE 24 CCR)
2022 CALIFORNIA PLUMBING CODE	(PART 5, TITLE 24 CCR)
2022 CALIFORNIA ENERGY CODE	(PART 6, TITLE 24 CCR)
2022 CALIFORNIA FIRE CODE (CFC)	(PART 9, TITLE 24 CCR)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE	(PART 11, TITLE 24 CCR)
2022 CALIFORNIA REFERENCED STANDARDS CODE	(PART 12, TITLE 24 CCR)

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS
2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

GENERAL REQUIREMENTS
THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS.

GENERAL / CODE INFORMATION

ALUMINUM: ALL ALUMINUM MEMBER GRADE 6061-T6 (UNLESS NOTED OTHERWISE)
CORROSION RESISTANT MATERIAL SHALL BE PROVIDED BETWEEN FERROUS METAL (STEEL) AND NON-FERROUS METAL (ALUMINUM).

STEEL: DESIGN AND FABRICATION IN ACCORDANCE WITH AISC-ASD, 15th EDITION.
WIDE FLANGE SHAPES ASTM A992 (Fy = 50 ksi)
BOLTS S5304 F593C CW1, Fu=100 KSI OR A325 WITH CORROSION-PREVENTITIVE COATING THAT DEMONSTRATED NO MORE THAN 2% RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117.
ZINC PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT AND GALVANIZED HARDWARE IS NOT COMPATIBLE WITH ALL MANUFACTURED EQUIPMENT.
REINFORCING STEEL ASTM 615, GRADE 60 (Fy = 60 ksi)
HSS SHAPES ASTM A500 GR C (Fy = 50 ksi)
STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153 CLASS D, AS APPLICABLE) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM.

WELDING: DESIGN AND FABRICATION ACCORDING TO AWS D1.1, CURRENT EDITION, AWS CERTIFICATION REQUIRED OF ALL STRUCTURAL WELDERS.
E70XX ELECTRODES FOR SMAW PROCESSES
F7X-EXXX ELECTRODES FOR SAW PROCESSES
PROVIDE PERIODIC SPECIAL INSPECTION FOR FIELD WELDING PER 2022 CBC, TABLE 1705A.2,1

CONCRETE: DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-19,
TYPE V CEMENT, MAXIMUM WATER-TO-CEMENT RATIO = 0,45
COMPRESSIVE STRENGTH AT 28 DAYS (f'c) = 4500 PSI, MIN.
CONTINUOUS BATCH PLANT INSPECTION NOT REQUIRED.
PROVIDE SLOPE AWAY FROM BASE OF SUPPORTS.
CONCRETE POURED INTO CONSTRAINED EARTH EXCAVATIONS MUST CURE UNDER PROPER CONDITIONS FOR 4 DAYS PRIOR TO SIGN CABINET INSTALLATION.
EXCEPTION: IF THE OVERALL HEIGHT OF THE SIGN IS LESS THAN 20 FEET ABOVE GRADE AND THE SIGN POLE IS ADEQUATELY BRACED AGAINST WIND LOADS FOR A MINIMUM OF 4 DAYS, THE SIGN CABINET MAY BE INSTALLED THE SAME DAY THE FOOTING IS POURED.

SOILS: SOIL PASSIVE PRESSURE BASED ON 2022 CBC, TABLE 1806A.2, CLASS 5.
LATERAL BEARING PRESSURE = 100 PSF/FT (THIS VALUE IS INCREASED IN THE CALCULATIONS PER CBC SECTION 1806A.3,4 FOR POLE FOOTING DESIGN)
INSPECTOR OF RECORD (IR) SHALL PROVIDE INSPECTION OF SOILS PER TEST AND INSPECTION FORM DSA-103, (IF SOFT OR SANDY SOIL, COLLAPSING OR UNSTABLE SOIL, CORROSIVE SOIL, ORGANIC MATERIALS OR GROUNDWATER ARE ENCOUNTERED, IMMEDIATELY CONTACT THE ARCHITECT OR ENGINEER OF RECORD FOR ADDITIONAL FOUNDATION REQUIREMENTS.)

TESTING & QUALITY CONTROL:

UNLESS NOTED OTHERWISE, CONCRETE MATERIALS SHALL CONFORM TO CHAPTER 19A, SPECIAL INSPECTIONS AND TESTS SHALL BE REQUIRED PER TABLE 1705A.3, FOUNDATION INSPECTION SHALL BE REQUIRED PER 1705A.6, STEEL SPECIAL INSPECTION AND TESTS SHALL BE REQUIRED PER TABLE 1705A.2,1.

NOTES: SIGN CABINETRY SHALL BE FABRICATED TO PROVIDE ISOLATION OF DISSIMILAR MATERIALS.

DAKTRONICS HAS DESIGNED THE DISPLAY COMPONENTS AND THEIR MOUNTING PER CBC 2022 AND THEY ARE IN COMPLIANCE WITH THE CURRENT CODES.

CONSTRUCTION SPECIFICATIONS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
651 W. GALENA PARK BLVD. STE. 101
DRAPER, UTAH 84020
(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER
WELLS L. HOLMES
S 8203
STRUCTURAL
STATE OF CALIFORNIA
08/07/2023

STRUCTURAL ENGINEER OF RECORD

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122194 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/18/2023

PROJECT-SPECIFIC APPROVALS

Quote: 846848-1-0
Solano Community College

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

THIRD ANGLE PROJECTION

DAKTRONICS

PROJECT:	2022 CBC DSA PRE-CHECK DRAWINGS				
TITLE:	SHEET 1; SCOREBOARD PC COVER SHEET				
DATE:	8 MAR 23	DIM UNITS:	INCHES [MILLIMETERS]	SHEET	REV
SCALE:	1/4" = 1'-0"		DO NOT SCALE DRAWING	1	A
DESIGN:	KKURTEN	JOB NO.	FUNC - TYPE - SEQ	5224617	
DRAWN:	SEASTMA	P2236	F - 10 - D		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122194
DSA File Number:
School Name: Pre Check
Increment Number:
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IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous Indicates that a continuous special inspection is required	GE (Geotechnical Engineer) Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic Indicates that a periodic special inspection is required	LOR (Laboratory of Record) Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test Indicates that a test is required	PI (Project Inspector) Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

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Table 1705A.6, Table 1705A.7, Table 1705A.8

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Geotechnical Reports:Project does NOT have and does NOT require a geotechnical report

	S1. GENERAL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify that: * Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. * Foundation excavations are extended to proper depth and have reached proper material. * Materials below footings are adequate to achieve the design bearing capacity.	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☐	b. Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

	S3. DRIVEN DEEP FOUNDATIONS (PILES):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.

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	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	e. Steel piles.	Provide tests and inspections per STEEL section below.		
☐	f. Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

	S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	b. Verify pier locations, diameters, plumbness and lengths,Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	c. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S5. RETAINING WALLS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Placement, compaction and inspection of backfill.	Continuous	GE*	1705A.6.1, * By geotechnical engineer or his or her qualified representative. (See section S2 above).
☐	b. Placement of soil reinforcement and/or drainage devices.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c. Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
☐	d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

	S6. OTHER SOILS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Soil Improvements	Test	GE*	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
☐	b. Inspection of Soil Improvements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c.			

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26,6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
☑	d. Test concrete (f'c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☑	e. Batch plant inspection: Eliminated	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

	C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3
☐	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13, Special inspector to verify specified concrete strength test prior to stressing.
☐	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13

	C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13.
☐	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
☐	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3; ACI 318-19 Section 26.13,1.3; ACI 550.5
☐	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550,5.	Periodic	SI	Table 1705A.3; ACI 318-19 Section 26.13,1.3; ACI 550,5

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	C4. SHOTCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3,9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3, See ACI 506.2-13 Section 3.4, ACI 506R-16.
☐	b. Sample and test shotcrete (Fc).	Test	LOR	1908A.2, 1705A.3,9

	C5. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1,19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3,8 (See Appendix (end of this form) for exemptions), ACI 318-14 Sections 17,8 & 26,13, * May be performed by the project inspector when specifically approved by DSA.
☐	b. Test post-installed anchors.	Test	LOR	1910A.5, (See Appendix (end of this form) for exemptions.)

	C6. OTHER CONCRETE:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A1, STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a.Verify identification of all materials and: Mill certificates indicate material properties that comply with requirements. Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a-3c, 2202A.1, AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	b.Test unidentified materials	Test	LOR	2202A.1.
☑	c.Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	d.Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
☐	e.Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

	S/A2, HIGH-STRENGTH BOLTS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a.Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1,5 & 2,1; DSA IR 17-8 & DSA IR 17-9,
☑	b.Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
☑	c.Bearing-type (snug tight) connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9,1; DSA IR 17-9,
☐	d.Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9,2 & 9,3; DSA IR 17-9, * Continuous or Periodic depends on the tightening method used.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A3, WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a.Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3,
☑	b.Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c.Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

	S/A4, SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a.Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1-4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3,
☑	b.Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3,
☐	c.Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1,1 & D1.3; DSA IR 17-3,
☐	d.Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	e.Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3,1, Table 1705A.3 Item 2, 1903A.8;AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5, FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a.Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1– 4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☑	b.Inspect single-pass fillet welds ≤ 5/16",	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	c.Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d.Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e.Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	f.Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1;AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	g.Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h.Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8,AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6, NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	S/A7. STEEL JOISTS AND TRUSSES:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A8, SPRAYED FIRE-RESISTANT MATERIALS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.
☐	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736
☐	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605

	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7
☐	b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
☐	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

	S/A11. Other Steel			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
☑	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-122194
DSA File Number:
School Name: Pre Check
Increment Number:
School District: Daktronics, Inc.
Date Created: 2023-04-20 22:42:50

	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) d4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number: 04-122194
DSA File Number:
School Name: Pre Check
Increment Number:
School District: Daktronics, Inc.
Date Created: 2023-04-20 22:42:50

Name of Architect or Engineer in general responsible charge:
Wells L. Holmes

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date: 04/24/2023

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number: 04-122194
DSA File Number:
School Name: Pre Check
Increment Number:
School District: Daktronics, Inc.
Date Created: 2023-04-20 22:42:50

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
3. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
651 W. GALENA PARK BLVD, STE. 101
DRAPER, UTAH 84020
(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER
WELLS HOLMES
S 8203
STRUCTURAL
STATE OF CALIFORNIA
08/07/2023

STRUCTURAL ENGINEER OF RECORD

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122194 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/18/2023

PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

THIRD ANGLE PROJECTION

PROJECT:	2022 CBC DSA PRE-CHECK DRAWINGS		
TITLE:	SHEET 3, DSA 103 SPECIAL INSPECTION FORM (CONT.)		
DATE:	8 MAR 23	DIM UNITS: INCHES [MILLIMETERS]	SHEET: REV:
SCALE:	1/4" = 1'-0"	DO NOT SCALE DRAWING	A
DESIGN:	KKURTEN	JOB NO.: P2236	FUNC - TYPE - SEQ: F - 10 - D
DRAWN:	SEASTMA		5224619

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

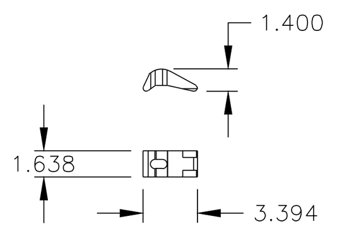
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 8
3 COLUMN STRUCTURES: 12
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 10'-0"

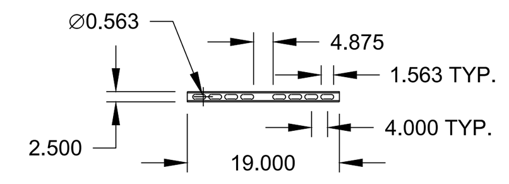
MAXIMUM SECTION WEIGHT
-12 PSF

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE SS304 BOLTS.

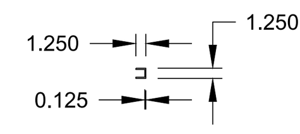
MOUNTING DETAIL 1



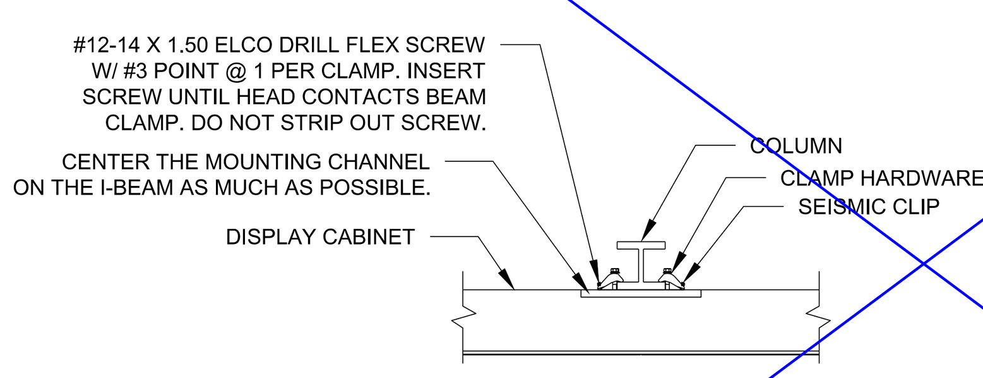
LAYOUT VIEW
AD PANEL CLAMP
(6061-T6 ALUMINUM)



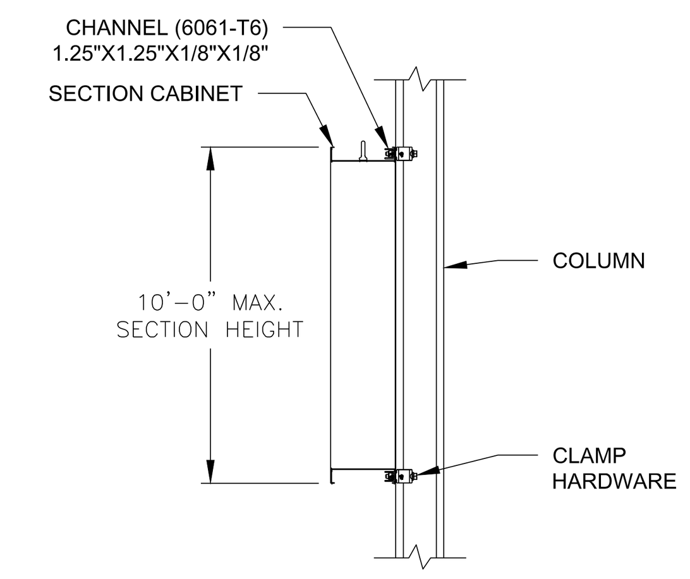
FRONT VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITHOUT 3 1/4" UNISTRUT



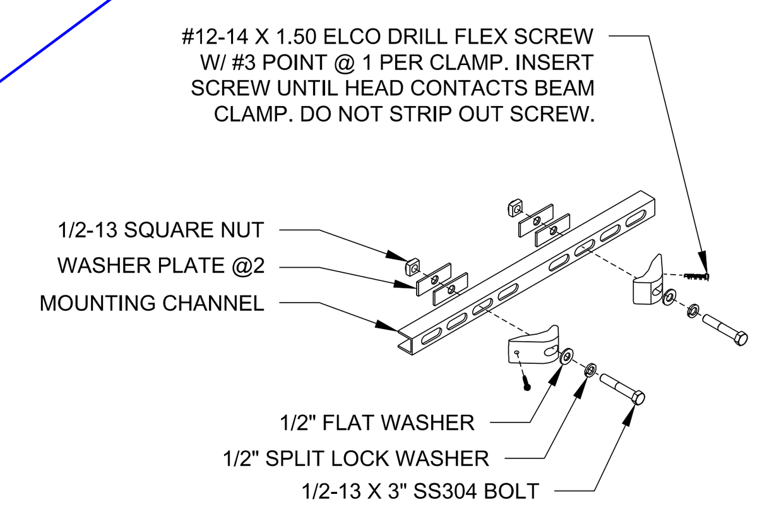
SIDE VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITHOUT 3 1/4" UNISTRUT



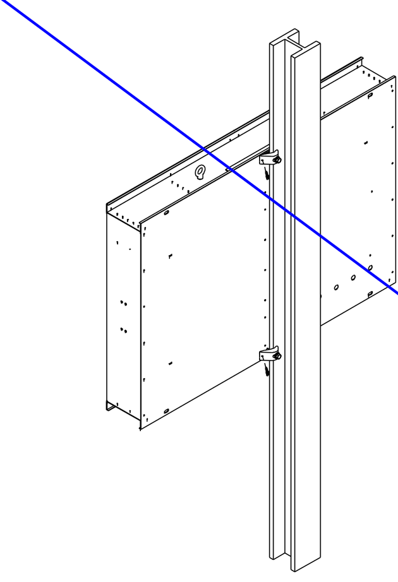
TOP VIEW



SIDE VIEW



EXPLODED VIEW


ISOMETRIC VIEW

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

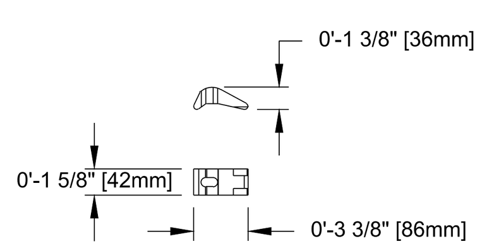
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 8
3 COLUMN STRUCTURES: 12
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 2'-6"

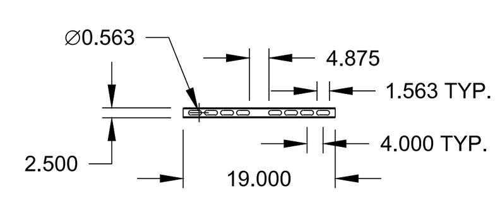
MAXIMUM SECTION WEIGHT
-12 PSF

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE SS304 BOLTS.

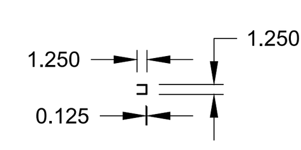
MOUNTING DETAIL 2



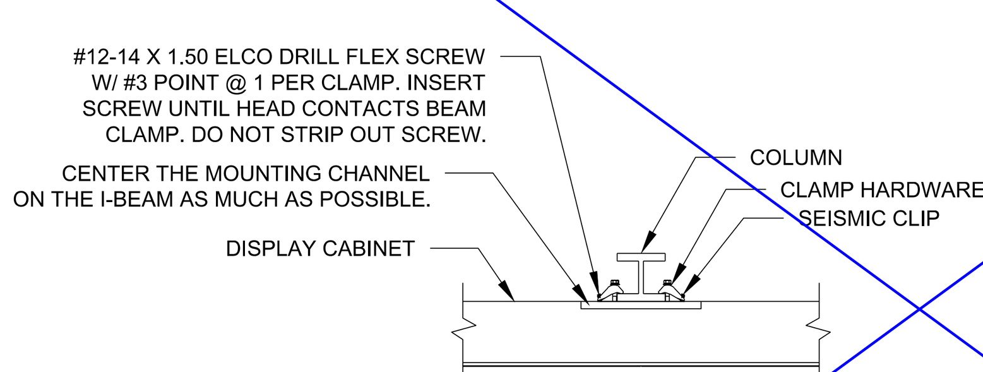
LAYOUT VIEW
AD PANEL CLAMP
(6061-T6 ALUMINUM)



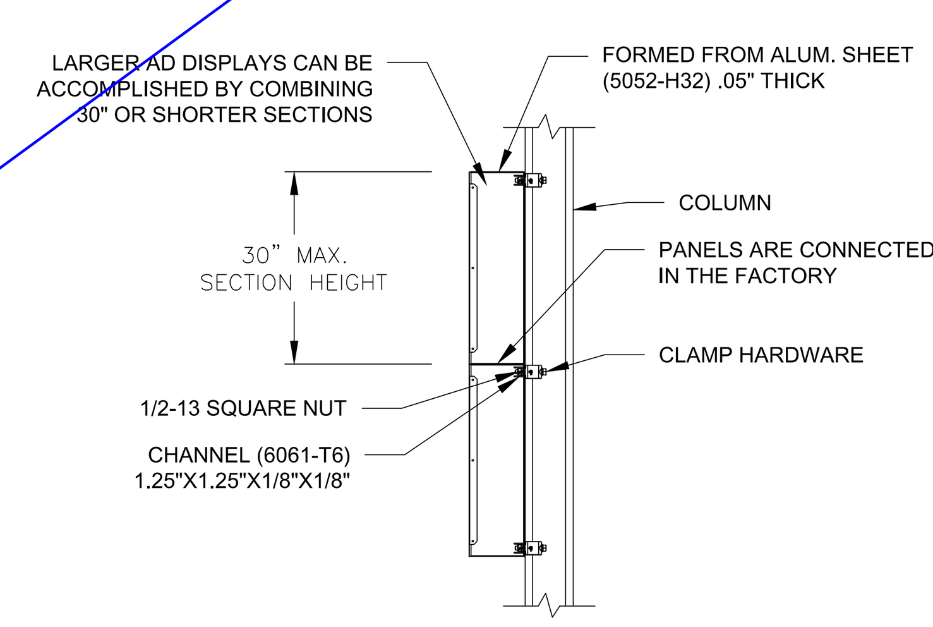
FRONT VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITHOUT 3 1/4" UNISTRUT



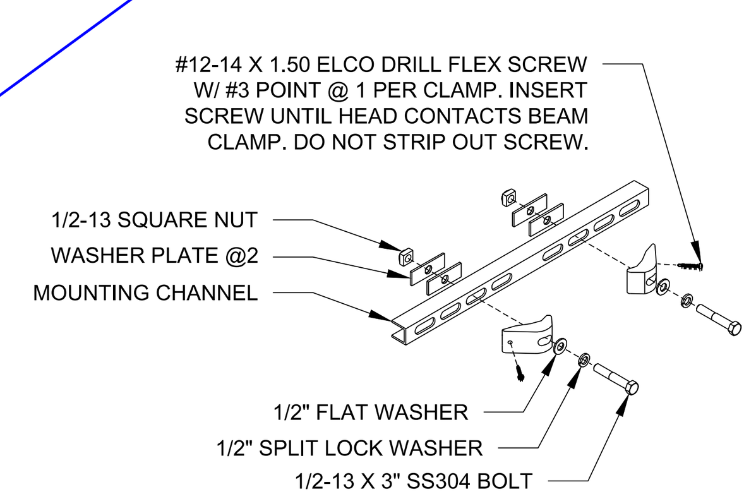
SIDE VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITHOUT 3 1/4" UNISTRUT



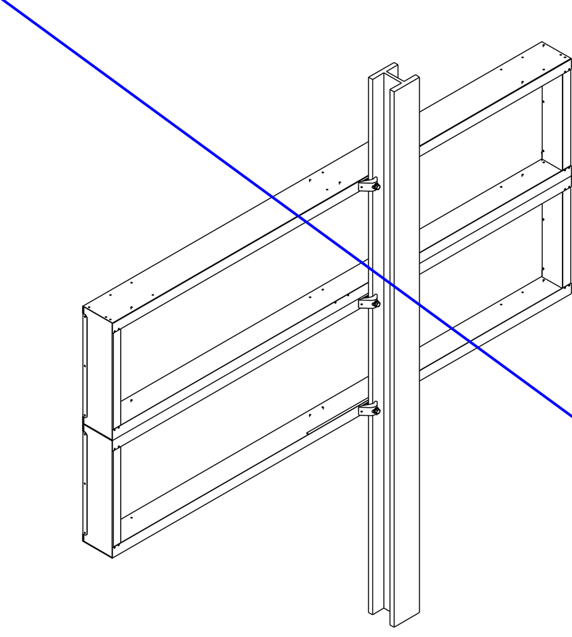
TOP VIEW



SIDE VIEW



EXPLODED VIEW


ISOMETRIC VIEW

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 8
3 COLUMN STRUCTURES: 12
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 6'-6"

MAXIMUM SECTION WEIGHT
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-MIN. FLANGE THICKNESS = 3/16"
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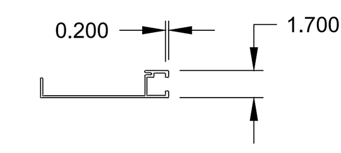
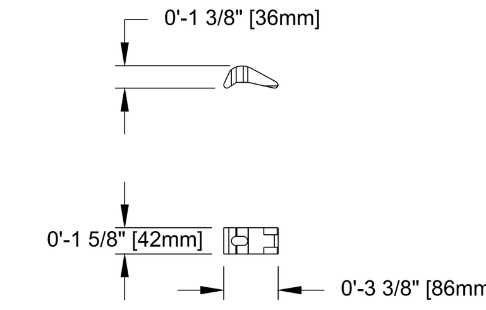
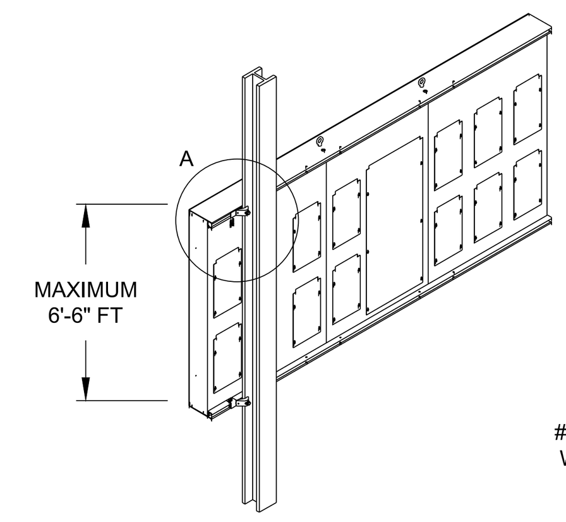
MOUNTING DETAIL 3



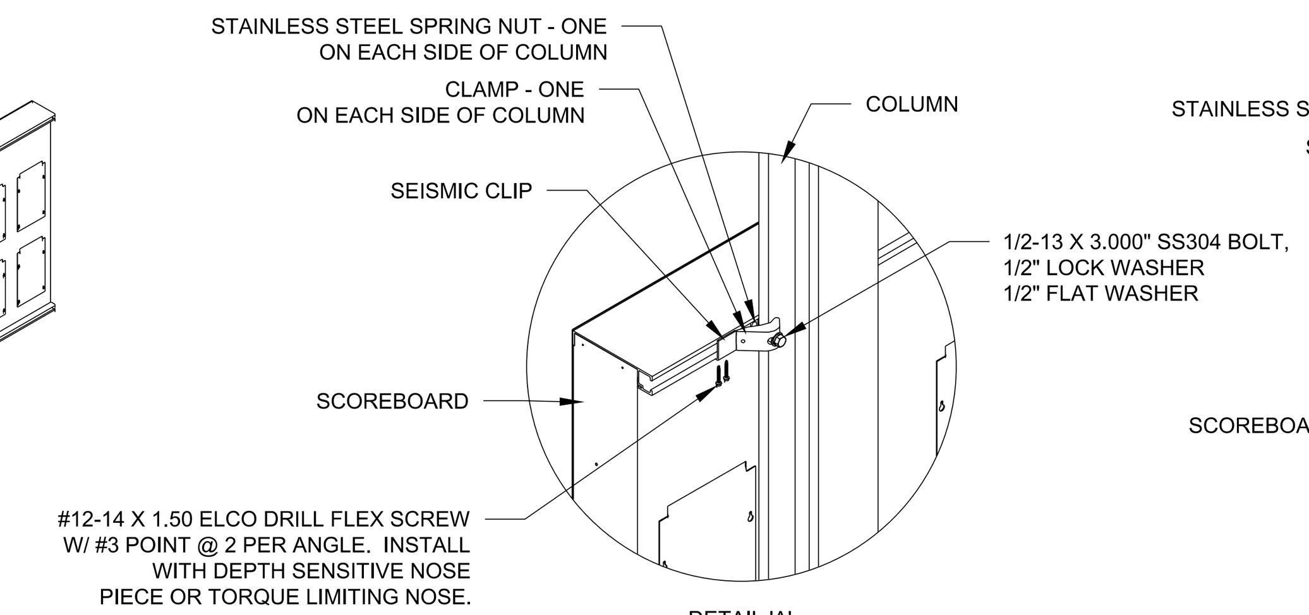
LAYOUT VIEW
SCOREBOARD EXTRUSION
(6061-T6 ALUMINUM)



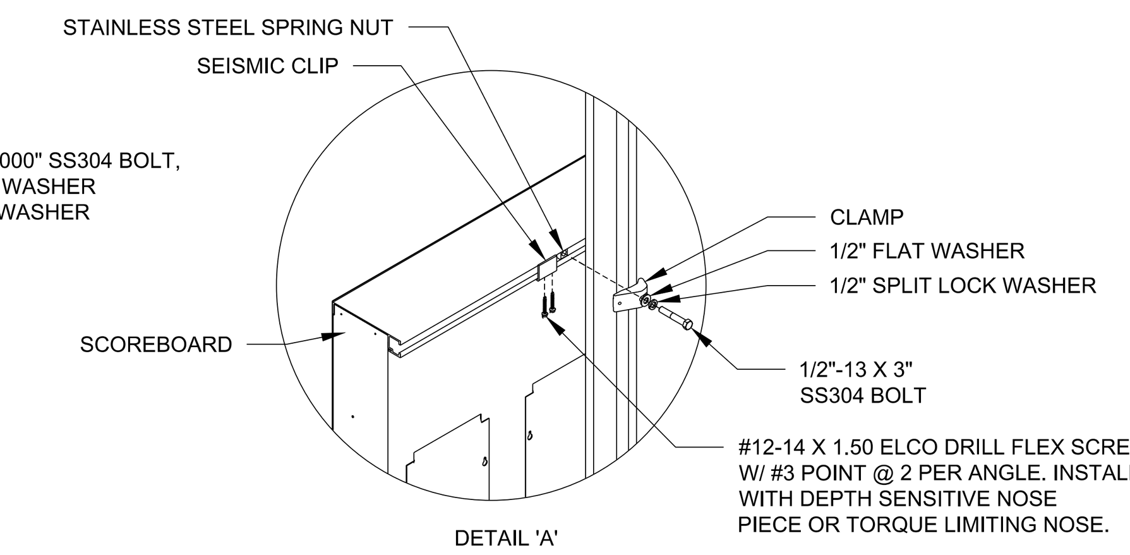
LAYOUT VIEW
SCOREBOARD CLAMP
(6061-T6 ALUMINUM)



ISOMETRIC VIEW



DETAIL 'A'



DETAIL 'A'
EXPLODED VIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR
ENGINEERS
WELLS L. HOLMES, S.E.
651 W. GALENA PARK BLVD. STE. 101
DRAPER, UTAH 84020
(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER
WELLS HOLMES
S 5203
STRUCTURAL
STATE OF CALIFORNIA
08/07/2023

STRUCTURAL ENGINEER OF RECORD

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122194 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/18/2023

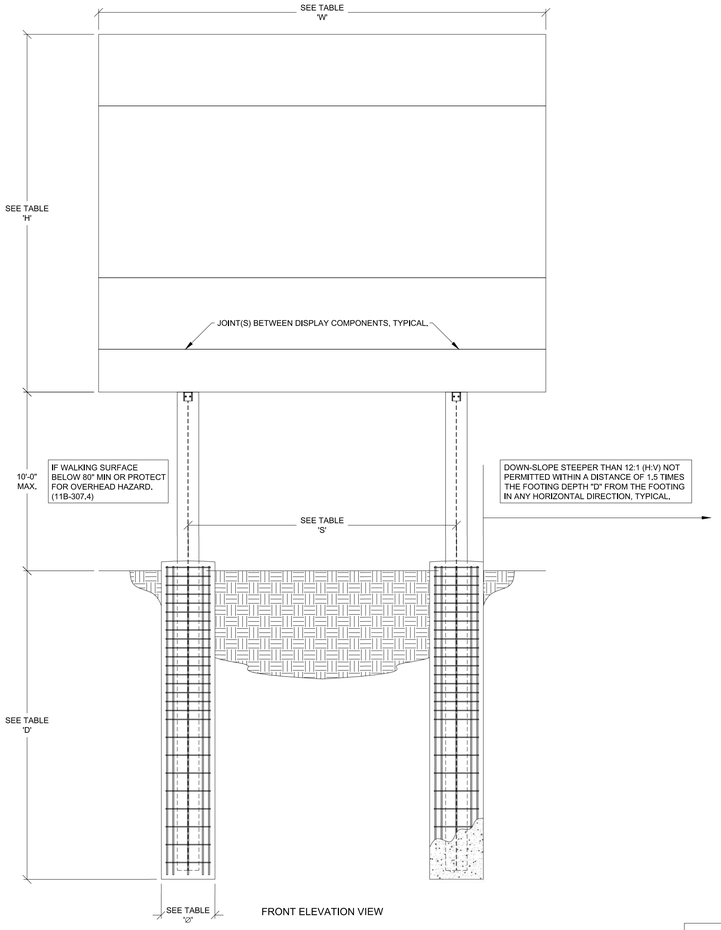
PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

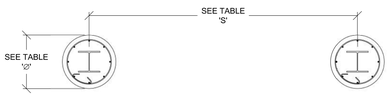
DAKTRONICS

THIRD ANGLE PROJECTION

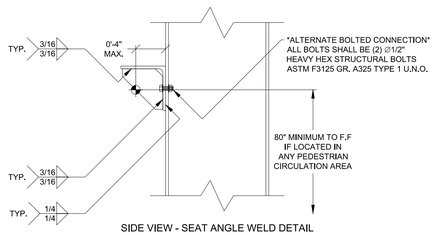
PROJECT:	2022 CBC DSA PRE-CHECK DRAWINGS				
TITLE:	SHEET 4; MOUNTING DETAILS W/O VIDEO DISPLAY				
DATE:	8 MAR 23	DIM UNITS: INCHES [MILLIMETERS]		SHEET	REV
SCALE:	1/4" = 1'-0"	DO NOT SCALE DRAWING		4	A
DESIGN:	KKURTEN	JOB NO.	FUNC - TYPE - SIZE	5224620	
DRAWN:	SEASTMA	P2236	F - 10 - D		



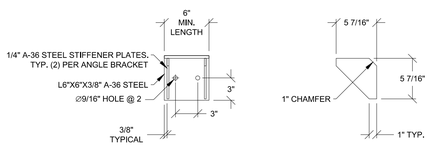
FRONT ELEVATION VIEW



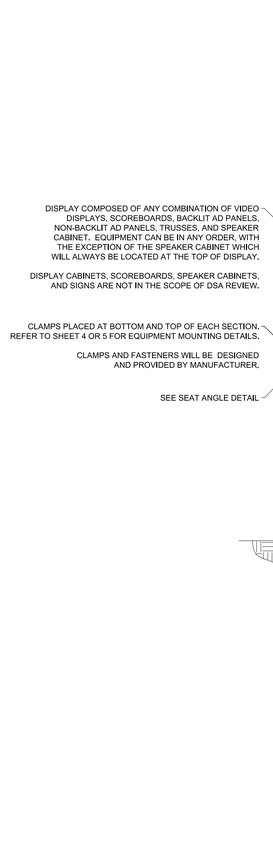
FOUNDATION PLAN VIEW



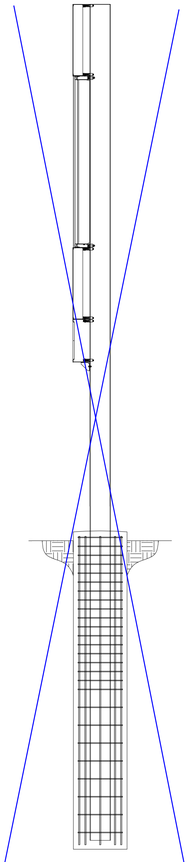
SIDE VIEW - SEAT ANGLE WELD DETAIL



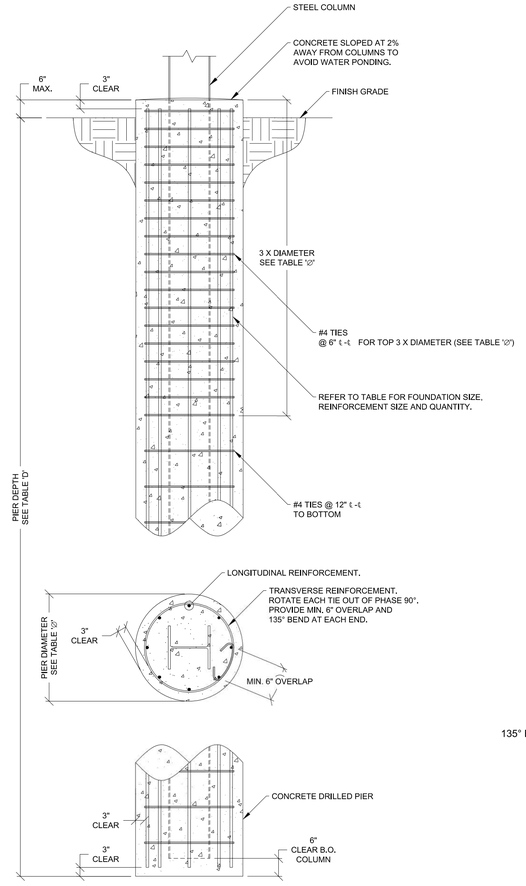
SEAT ANGLE DETAIL
MAXIMUM CAPACITY = 5,750 LBS. PER SEAT
SEAT ANGLE IS REQUIRED AT BOTTOM OF DISPLAY STACKS
TYPICAL AT EACH COLUMN



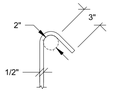
SCOREBOARD SIDE ELEVATION VIEW
SEE SHEET 4 FOR MOUNTING DETAILS



VIDEO DISPLAY SIDE ELEVATION VIEW
SEE SHEET 5 FOR MOUNTING DETAILS



CONCRETE DRILLED PIER - SIDE PLAN VIEW
N.T.S.



135° BEND DETAIL FOR #4 REBAR TIE

TABLE A - STANDARD WIND REGIONS (100 MPH)

CHECK OPTION	OVERALL DIMENSIONS			COLUMNS		PIER FOOTINGS			WIND			SEISMIC
	"MAX. HEIGHT 'H' (FT)"	"MAX. WIDTH 'W' (FT)"	MAX. DISPLAY WEIGHT (LBS)	"SPACING 'S' (FT)"	SIZE	"DIAMETER 'Ø' (FT)"	"DEPTH 'D' (FT)"	"LONG. REINF. (QTY - SIZE)"	Kz	Cf	"DESIGN WIND PRESSURE (LBS/SQFT)"	"BASE SHEAR (LBS)"
✔	8.00	16.00	2386.00	10.00	W8X24	3	8.25	(7) #8	0.88	1.73	28.19	1680
	~~12.00~~	~~16.00~~	~~3154.00~~	~~10.00~~	~~W10X33~~	~~3~~	~~10~~	~~(7) #8~~	~~0.92~~	~~1.71~~	~~29.11~~	~~2380~~
	~~16.00~~	~~16.00~~	~~3922.00~~	~~10.00~~	~~W10X45~~	~~3~~	~~11.5~~	~~(7) #8~~	~~0.95~~	~~1.69~~	~~29.83~~	~~3060~~
	~~20.00~~	~~16.00~~	~~4690.00~~	~~10.00~~	~~W12X50~~	~~3~~	~~13.5~~	~~(7) #8~~	~~0.98~~	~~1.68~~	~~30.58~~	~~4060~~
	~~8.00~~	~~20.00~~	~~2770.00~~	~~12.00~~	~~W12X26~~	~~3~~	~~9~~	~~(7) #8~~	~~0.88~~	~~1.73~~	~~28.19~~	~~1960~~
	~~12.00~~	~~20.00~~	~~3730.00~~	~~12.00~~	~~W10X39~~	~~3~~	~~10.75~~	~~(7) #8~~	~~0.92~~	~~1.69~~	~~28.83~~	~~2800~~
	~~16.00~~	~~20.00~~	~~4690.00~~	~~12.00~~	~~W10X49~~	~~3~~	~~12.75~~	~~(7) #8~~	~~0.95~~	~~1.68~~	~~29.61~~	~~3500~~
	~~20.00~~	~~20.00~~	~~5650.00~~	~~12.00~~	~~W12X65~~	~~3~~	~~15.5~~	~~(7) #8~~	~~0.98~~	~~1.67~~	~~30.28~~	~~4620~~
	~~24.00~~	~~20.00~~	~~6610.00~~	~~12.00~~	~~W12X79~~	~~3~~	~~18.25~~	~~(7) #8~~	~~1.01~~	~~1.66~~	~~31.03~~	~~5740~~
	~~12.00~~	~~25.50~~	~~4522.00~~	~~15.00~~	~~W16X45~~	~~3~~	~~11.75~~	~~(7) #8~~	~~0.92~~	~~1.68~~	~~28.55~~	~~3080~~
	~~16.00~~	~~25.50~~	~~5746.00~~	~~15.00~~	~~W12X53~~	~~3~~	~~14.75~~	~~(7) #8~~	~~0.95~~	~~1.66~~	~~29.31~~	~~4200~~
	~~20.00~~	~~25.50~~	~~7670.00~~	~~15.00~~	~~W14X74~~	~~3~~	~~17.75~~	~~(7) #8~~	~~0.98~~	~~1.65~~	~~30.03~~	~~5600~~
	~~24.00~~	~~25.50~~	~~8894.00~~	~~15.00~~	~~W14X90~~	~~3~~	~~21~~	~~(7) #8~~	~~1.01~~	~~1.64~~	~~30.66~~	~~7000~~
	~~28.00~~	~~25.50~~	~~10118.00~~	~~15.00~~	~~W14X109*~~	~~4~~	~~20.25~~	~~(12) #8~~	~~1.03~~	~~1.64~~	~~31.33~~	~~8540~~
	~~32.00~~	~~25.50~~	~~11342.00~~	~~15.00~~	~~W18X143*~~	~~4~~	~~22.75~~	~~(12) #8~~	~~1.05~~	~~1.64~~	~~31.97~~	~~10780~~
	~~36.00~~	~~25.50~~	~~12566.00~~	~~15.00~~	~~W27X161*~~	~~4~~	~~25.5~~	~~(12) #8~~	~~1.07~~	~~1.64~~	~~32.56~~	~~12740~~

TABLE B - SPECIAL WIND REGIONS (130 MPH)

CHECK OPTION	OVERALL DIMENSIONS			COLUMNS		PIER FOOTINGS			WIND			SEISMIC
	"MAX. HEIGHT 'H' (FT)"	"MAX. WIDTH 'W' (FT)"	MAX. DISPLAY WEIGHT (LBS)	"SPACING 'S' (FT)"	SIZE	"DIAMETER 'Ø' (FT)"	"DEPTH 'D' (FT)"	"LONG. REINF. (QTY - SIZE)"	Kz	Cf	"DESIGN WIND PRESSURE (LBS/SQFT)"	"BASE SHEAR (LBS)"
	~~8.00~~	~~16.00~~	~~2386.00~~	~~10.00~~	~~W12X30~~	~~3~~	~~10~~	~~(7) #8~~	~~0.88~~	~~1.73~~	~~47.64~~	~~1820~~
	~~12.00~~	~~16.00~~	~~3154.00~~	~~10.00~~	~~W12X40~~	~~3~~	~~12.25~~	~~(7) #8~~	~~0.92~~	~~1.71~~	~~49.20~~	~~2520~~
	~~16.00~~	~~16.00~~	~~3922.00~~	~~10.00~~	~~W12X53~~	~~3~~	~~15.25~~	~~(7) #8~~	~~0.95~~	~~1.69~~	~~50.41~~	~~3360~~
	~~20.00~~	~~16.00~~	~~4690.00~~	~~10.00~~	~~W12X72~~	~~3~~	~~18.75~~	~~(7) #8~~	~~0.98~~	~~1.68~~	~~51.68~~	~~4480~~
	~~8.00~~	~~20.00~~	~~2770.00~~	~~12.00~~	~~W10X33~~	~~3~~	~~11~~	~~(7) #8~~	~~0.88~~	~~1.73~~	~~47.64~~	~~2100~~
	~~12.00~~	~~20.00~~	~~3730.00~~	~~12.00~~	~~W14X48~~	~~3~~	~~13.75~~	~~(7) #8~~	~~0.92~~	~~1.69~~	~~48.72~~	~~2940~~
	~~16.00~~	~~20.00~~	~~4690.00~~	~~12.00~~	~~W14X61~~	~~3~~	~~17.5~~	~~(7) #8~~	~~0.95~~	~~1.68~~	~~50.04~~	~~3920~~
	~~20.00~~	~~20.00~~	~~5650.00~~	~~12.00~~	~~W14X82*~~	~~3~~	~~21.25~~	~~(7) #8~~	~~0.98~~	~~1.67~~	~~51.17~~	~~5180~~
	~~24.00~~	~~20.00~~	~~6610.00~~	~~12.00~~	~~W14X99~~	~~4~~	~~21~~	~~(12) #8~~	~~1.01~~	~~1.66~~	~~52.44~~	~~6440~~
	~~12.00~~	~~25.50~~	~~4522.00~~	~~15.00~~	~~W14X53~~	~~3~~	~~16~~	~~(7) #8~~	~~0.92~~	~~1.68~~	~~48.25~~	~~3360~~
	~~16.00~~	~~25.50~~	~~5746.00~~	~~15.00~~	~~W16X67~~	~~3~~	~~20.25~~	~~(7) #8~~	~~0.95~~	~~1.66~~	~~49.53~~	~~4480~~
	~~20.00~~	~~25.50~~	~~7670.00~~	~~15.00~~	~~W14X90~~	~~4~~	~~20.5~~	~~(12) #8~~	~~0.98~~	~~1.65~~	~~50.75~~	~~6020~~
	~~24.00~~	~~25.50~~	~~8894.00~~	~~15.00~~	~~W24X117*~~	~~4~~	~~24.25~~	~~(12) #8~~	~~1.01~~	~~1.64~~	~~51.82~~	~~7840~~
	~~28.00~~	~~25.50~~	~~10118.00~~	~~15.00~~	~~W14X145*~~	~~4~~	~~28~~	~~(12) #8~~	~~1.03~~	~~1.64~~	~~52.95~~	~~9800~~
	~~32.00~~	~~25.50~~	~~11342.00~~	~~15.00~~	~~W30X173*~~	~~5~~	~~27.50~~	~~(19) #8~~	~~1.05~~	~~1.64~~	~~54.03~~	~~12040~~
	~~36.00~~	~~25.50~~	~~12566.00~~	~~15.00~~	~~W33X201*~~	~~5~~	~~30.75~~	~~(19) #8~~	~~1.07~~	~~1.64~~	~~55.02~~	~~14560~~

(1) PER ASCE7 CASE B LOADING. CASE B LOADING = (CASE A LOADING) X (1.67). THE PRESSURES HAVE BEEN MULTIPLIED BY 0.6 (ASD LOAD FACTOR).
(2) 0.7V PER ASCE7-16 ASD EQUATIONS.
(3) COLUMN MAY BE SPLICED WITH A PREQUALIFIED CJP WELD.
(*) MAY NEED LONGER BOLTS FOR CLAMP ATTACHMENTS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122861 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/03/2025

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
651 W. GALENA PARK BLVD. STE. 101
DRAPER, UTAH 84020
(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER WELLS HOLMES S.E. 8203 STRUCTURAL STATE OF CALIFORNIA

08/07/2023

STRUCTURAL ENGINEER OF RECORD

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122194 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/18/2023

PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

THIRD ANGLE PROJECTION

PROJECT:	2022 CBC DSA PRE-CHECK DRAWINGS			
TITLE:	SHEET 9; 2-COLUMN STRUCTURE W/ PIER FOUNDATIONS			
DATE:	8 MAR 23	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE:	1/8" = 1'-0"	DO NOT SCALE DRAWING	9	A
DESIGN:	KKURTEN	JOB NO.	FUNC - TYPE - SIZE	
DRAWN:	SEASTMA	P2236	F - 10 - D	5224624